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На основу члана 35. Закона о науци и истраживањима (Сл. гласник РС, бр. 49/2019 и 108/2025), а у складу са чланом 65. Статута Технолошког факултета Нови Сад (бр. 020-832/1 од 26.08.2025. године) Наставно-научно веће Технолошког факултета Нови Сад на седници одржаној у периоду од 08-09.01.2026. године, са изменама и допунама од 19.02.2026. године, доноси

ПРОГРАМ РАЗВОЈА НАУЧНОИСТРАЖИВАЧКОГ ПОДМЛАТКА ТЕХНОЛОШКОГ ФАКУЛТЕТА НОВИ САД ЗА ПЕРИОД 2026-2031. ГОДИНЕ

Развој научноистраживачког подмлатка Технолошког факултета Нови Сад (у даљем тексту: Факултет) представља кључни темељ за очување институционалног континуитета и изврсности у научном раду. Тренутна структура научноистраживачког подмлатка, која обухвата 43 млада истраживача у различитим звањима (асистенти са докторатом, асистенти, истраживачи-сарадници, истраживачи-приправници и стипендисти), потврђује опредељеност Факултета да обезбеди висок квалитет наставног процеса и глобалну конкурентност у научном простору.

Научноистраживачка делатност на Факултету реализује се кроз синергију докторских академских студија, институционалног финансирања од стране Министарства науке, технолошког развоја и иновација, као и кроз учешће у националним и међународним пројектима. У ширем смислу, научноистраживачки подмладак чине:

- Студенти који остварују изузетан успех и показују афинитет ка научноистраживачком раду;
- Сарадници у настави и науци (асистенти са докторатом, асистенти, истраживачи-сарадници, истраживачи-приправници и стипендисти).

Планиране активности су диференциране према специфичним потребама наведених категорија, са заједничким циљем интеграције младих талената у савремена научна истраживања и развоја нових технологија кроз активан пројектни рад.

Програм научноистраживачког развоја студената основних академских и мастер академских студија на Технолошком факултету Нови Сад

Стратешки фокус на студенте основних и мастер академских студија заснива се на правовременој идентификацији истраживачког потенцијала и подстицању мотивације за научноистраживачки рад. Путем интензивног менторског рада, Факултет тежи да код студената са натпросечним постигнућима развије специфичне компетенције неопходне за будући научни позив, креирајући тако базу из које ће се регрутовати будући носиоци научног напретка институције.

Програм научноистраживачког развоја студената основних и мастер академских студија на Факултету обухвата:

1. **Развој научноистраживачког подмлатка** путем:
 - Евалуације академског учинка: Континуирано праћење постигнућа и ангажованости у оквиру редовног наставног процеса.
 - Научне афирмације: Подстицање израде висококвалитетних семинарских радова као почетне платформе за истраживачко деловање.
 - Институционалне подршке: Оснаживање научноистраживачког рада кроз специјализоване секције у оквиру студентских организација.

2. **Програмске активности Научне секције Факултета**, платформе за интеграцију студената основних и мастер академских студија у научноистраживачку заједницу, које обухватају:
 - Проширење теоријских и практичних знања: Организација експертских предавања и интерактивних радионица.
 - Истраживачки циклус: Формулисање истраживачких питања, спровођење експерименталног рада и финализација научних радова за презентовање на релевантним скуповима.
 - Развој трансферзалних компетенција: Унапређење комуникационих вештина, способности јавног наступа, вештина тимског рада и изградња професионалног интегритета.

3. **Инфраструктурну подршку и јавну афирмацију истраживачких резултата.** Факултет обезбеђује свеобухватан систем материјалне и институционалне подршке који омогућава трансформацију студентских идеја у конкретне научне резултате кроз:
 - Приступ савременој истраживачкој инфраструктури. Омогућавање рада на савременој истраживачкој опреми у оквиру лабораторија Факултета, као и кроз екстерну сарадњу са другим академским и научним институцијама. Непосредан рад на врхунској опреми омогућава студентима стицање експерименталних вештина и овладавање напредним методама анализе чиме се подиже методолошка утемељеност њихових резултата, а студенти се профилишу као компетентни стручњаци спремни за рад у високоразвијеним истраживачко-развојним центрима. Оваква пракса премашује јаз између теоријских знања и реалне лабораторијске праксе, развијајући техничку прецизност и истраживачку етику.
 - Подстицање јавне афирмације и научног публикувања. Факултет активно подржава афирмацију резултата на научно-стручним скуповима студената као што су Технологијада, Конференција студената технологије (КОНСТ), Међународни скуп студената Технолошких факултета, Међународни сусрет студената, Conference for Young Scientists in Ceramics и други међународни научни форуми. Учешће на оваквим скуповима пружа студентима платформу за критичку евалуацију рада од стране еминентних стручњака и колега, чиме се унапређује квалитет њиховог научног закључивања. Кроз јавне наступе, студенти развијају кључне комуникационе вештине и реторичке способности, неопходне за успешно презентовање сложених

технолошких решења. Истовремено, ови скупови служе као простор за стратешко умрежавање, размену искустава са истраживачима из других средина и стицање увида у најновије научне трендове, што директно јача самопоуздање студената и њихову конкурентност на глобалном тржишту рада.

4. Интернационализацију и глобалну позиционираност научноистраживачког подмлатка која се реализује кроз следеће механизме:

- Еразмус+ мобилност (студијски боравци и стручне праксе): Омогућава студентима интензивно усавршавање у водећим европским научноистраживачким центрима и привредним системима. Кроз ове боравке, студенти остварују директан приступ савременим технологијама и специфичним методологијама рада чиме се подстиче унапређење знања, док боравак у иностраним привредним организацијама омогућава трансфер технологије у праксу, којим се студенти припремају за рад у међународно конкурентном окружењу.
- Институционалне мреже размене (СЕЕРУС, DAAD, Campus Europae и остали фондови): Факултет пружа активну менторску и информациону подршку за аплицирање по позивима из оквира оваквих фондова, чиме се осигурава континуитет међународне присутности. Ове активности директно доприносе изградњи међународне мреже контаката, што је предуслов за будуће заједничке пројекте и мултилатералну научну сарадњу. Студенти развијају интеркултуралне компетенције, јачају језичке вештине и усвајају најбоље праксе европског образовног простора. Овакво искуство не само да подиже репутацију појединца, већ кроз повратну спрегу знања значајно унапређује истраживачки капацитет самог Факултета, интегришући нас у савремене европске научне токове.

5. Популаризацију науке и јачање друштвеног интегритета истраживачког рада представља посебан стратешки фокус Факултета: Кроз активно учешће студената у манифестацијама, као што су Ноћ истраживача, Фестивал науке и Отворени дани Факултета, промовише се наука и приближавају научноистраживачки процеси широј јавности. Ангажовањем у овим активностима, студенти уче како да комплексна научна сазнања преведу на разумљив језик широке друштвене заједнице, чиме се јача научна писменост друштва и промовише улога Факултета као носиоца друштвеног и технолошког прогреса. Студенти кроз директан контакт са јавношћу развијају специфичне вештине јавног наступа, адаптивности и едукације, што је од великог значаја за њихову будућу улогу лидера у академској сфери или индустријском сектору. Ове активности имају и функцију професионалне оријентације, где садашњи студенти кроз сопствене истраживачке примере инспиришу будуће генерације, обезбеђујући тиме континуитет и одрживост научноистраживачког подмлатка. Учешће у оваквим форматима подиже ниво самопоуздања студената и омогућава им да свој рад сагледају у ширем контексту његове практичне примене и добробити за заједницу.

У наредном периоду, Факултет ће имплементирати унапређене механизме подршке усмерене на развој научноистраживачког подмлатка препознајући студенте основних и мастер академских студија као кључне носиоце будућих технолошких иновација. Активности су структуриране тако да прате развојни пут студента од првог сусрета са лабораторијом до професионалног истраживачког ангажмана:

- **Интегрисани систем управљања талентима:** Факултет уводи модел раног препознавања надарених студената већ на почетним годинама основних студија. Кроз персонализовано менторство и сарадњу са Канцеларијом за међународну сарадњу и Центром за развој каријере УНС, студентима се пружа подршка у профилисању истраживачког пута и стратешком планирању каријере у оквиру академске заједнице или водећих индустријских истраживачких центара.
- **Студент као ко-креатор знања и програма:** Подстицање активног учешћа студената у унапређивању студијских програма и предметних садржаја кроз истраживачке иницијативе. Овај приступ омогућава да студентске идеје и резултати њихових истраживања директно доприносе иновативности наставе, чиме се развија критичко мишљење и предузетнички дух неопходан за савремени технолошки развој.
- **Директна интеграција у истраживачке тимове и пројекте:** Формално евидентирање и подршка укључивању студената, посебно на мастер студијама, у истраживања из оквира текућих националних и међународних научноистраживачких и развојних пројеката. Циљ је да се самостални рад студента (семинарски, дипломски или мастер рад) интегрише у реалне научне токове, обезбеђујући тиме високу релевантност и апликативност њихових резултата.
- **Мониторинг научног учинка и изврсности:** Успостављање система за праћење интензитета научноистраживачког рада међу студентима, чиме се омогућава објективна валоризација њиховог труда и награђивање најуспешнијих младих истраживача кроз посебне стимулативне мере и препоруке за даље усавршавање.
- **Едукација за истраживања будућности:** Усмеравање студената ка принципима Отворене науке и дигиталним платформама за истраживање. Факултет ће кроз радионице едуковати студенте о међународним стандардима научне етике, писању пројеката и заштити интелектуалне својине, што су кључне вештине за рад у глобалном научном окружењу.

Програм развоја научноистраживачког подмлатка - асистенти са докторатом, асистенти, истраживачи-сарадници, истраживачи-приправници и стипендисти

Докторске академске студије представљају кључну етапу у усмеравању научне каријере појединца и представљају примарни стуб научноистраживачке изврсности Факултета. Као научноистраживачка организација, Факултет стратешки интегрише докторанде у свој развојни концепт, спроводећи развој кадра кроз три комплементарна модела:

1. Академско-наставни модел кроз избор у асистентска звања, где се научноистраживачки рад синергијски повезује са педагошким радом у наставном процесу.
2. Истраживачки модел кроз ангажовање младих сарадника у истраживачким звањима (истраживач приправник и истраживач сарадник), чиме се осигурава фокусираност на научне пројекте и изврсност у науци.
3. Активно укључивање младих истраживача - стипендиста Министарства науке, технолошког развоја и иновација. Овај модел представља значајан облик подршке изврсности, кроз који тренутно пет стипендиста Министарства на Факултету кроз реализацију докторских студија учествује у научноистраживачком раду. Такође, Факултет подстиче интеграцију стипендиста у академску заједницу кроз укључивање у реализацију вежби на основним и мастер академским студијама, чиме се изграђују њихове педагошке компетенције.

Са укупно 124 активна студента докторских студија на акредитованим студијским програмима докторских академских студија (Прехрамбено инжењерство, Хемијско инжењерство, Биотехнологија, Фармацеутско инжењерство и Инжењерство материјала), Факултет спроводи динамичан систем усавршавања који обухвата:

- Континуирано унапређење студијских програма кроз реакредитацију: Увођењем нових изборних предмета и нових предметних садржаја постојећих предмета који прате најсавременије светске трендове, омогућава се студентима фокусирање на уска научна подручја од стратешког значаја.
- Развој подмлатка на докторским академским студијама усмерен је на постизање највишег нивоа квалификација предвиђених Националним оквиром квалификација Србије. Програм обезбеђује стицање систематизованог и дубоког знања у ужој научној области, омогућавајући докторандима да кроз самосталан истраживачки рад пруже значајан оригинални допринос који проширује границе постојећег знања. Посебан акценат ставља се на развој способности за критичку анализу, евалуацију и синтезу сложених идеја, као и на неговање научног интегритета. Тиме се истраживачи оспособљавају за самостално вођење комплексних пројеката и трансфер иновативних решења у међународном научноистраживачком и индустријском окружењу.
- Научну продуктивност и дисеминацију: Публиковање истраживачких резултата у реномираним међународним часописима са SCI листе представља примарни индикатор квалитета и неизоставан услов за напредовање. Факултет системски подстиче ову активност, препознајући је као кључни допринос глобалној научној заједници и сопственом институционалном рејтингу.
- Међународну институционалну сарадњу: Значајан део истраживачког процеса реализује се кроз боравке у реномираним иностраним научноистраживачким институцијама. Овај сегмент омогућава докторандима пренос напредних знања (*know-how*) у матичне лабораторије и успостављање трајних професионалних веза у оквиру глобалног истраживачког простора.

У наредном периоду, Факултет ће додатно интензивирати подршку научноистраживачком подмлатку кроз сет системских мера, позиционирајући младе истраживаче као кључне актере у развоју институције. Ове мере обухватају:

- Интеграцију у међународне и националне истраживачке токове. Ангажман докторанада у оквиру мултидисциплинарних пројектних тимова омогућава им да свој истраживачки рад директно усмере на решавање реалних научних, али и технолошких изазова и потреба савремене привреде.
- Развој вештина за управљање научним пројектима: Спровођење специјализованих обука за развој вештина писања и управљања научним пројектима. Циљ је припрема научноистраживачког подмлатка за самостално аплицирање код националних и европских фондова (нпр. Фонд за науку, Хоризонт Европа), чиме се осигурава њихова будућа научна независност.
- Управљање истраживачким подацима: У складу са принципима Отворене науке, млади истраживачи ће бити обучени за професионално прикупљање, дељење и складиштење података према међународним стандардима (FAIR принципи). Ово се дефинише као неопходна компетенција за сарадњу у оквиру глобалних научних мрежа.
- Промоција научног предузетништва: Факултет ће пружити активну подршку трансформацији истраживачких резултата у иновативне производе или услуге. Кроз менторство у домену заштите интелектуалне својине и трансфера технологије, подстиче се развој *spin-off*, *spin-out* и *start-up* иницијатива међу научноистраживачким подмлатком. Овај приступ омогућава истраживачима да постану носиоци технолошког предузетништва, истовремено јачајући везу између академске заједнице и привредног сектора.
- Системско оспособљавање научноистраживачког подмлатка за преузимање менторских улога што представља обавезујући фактор дугорочне стабилности истраживачког рада на Факултету и чиме се осигурава одржив циклус трансфера знања.

У циљу обезбеђивања потпуне транспарентности, системског праћења напретка и ефикасног управљања људским ресурсима, Факултет води евиденцију научноистраживачког подмлатка. Детаљан преглед ангажованих истраживача, који обухвата њихов тренутни академски статус, менторску подршку и стратешке истраживачке циљеве, приказан је у Прилогу 1: Подаци о НИО подмлатку.

Ангажовање младих истраживача на пројектима и међународна афирмација

Тренутно је на Факултету ангажовано укупно 43 млада истраживача, и то: 7 асистената са докторатом, 7 асистената, 15 истраживача сарадника, 9 истраживача приправника и 5 стипендиста Министарства науке, технолошког развоја и иновација. Сваки истраживач са пријављеном темом докторске дисертације има именованог ментора док истраживачи чија је дисертација у фази планирања имају именоване саветнике на докторским студијама и индивидуалне планове научно-истраживачког развоја. Сви млади истраживачи су активно укључени у реализацију научноистраживачког рада и учествују у бројним другим активностима од значаја за развој науке на Факултету.

Факултет активно подстиче ангажовање научноистраживачког подмлатка у међународним активностима и мобилности. Кроз активно учешће на међународним и

националним пројектима, младим истраживачима је омогућена пуна афирмација у научној заједници и приступ савременој истраживачкој инфраструктури широм света, са приоритетним стратешким позиционирањем унутар Европског истраживачког простора.

Досадашњи и текући ангажман обухвата широк спектар програма и позива:

- Оквирни програми ЕУ и стратешке иницијативе: *HORIZON Europe* (укључујући претходни *Horizon 2020*), *European Green Deal*, *CREA (Creative Europe)*, *EUREKA*;
- Национални фондови: Пројекти Фонда за науку Републике Србије, Фонда за иновациону делатност, Покрајинског секретаријата за високо образовање и научноистраживачку делатност и других националних фондова;
- Регионална и прекогранична сарадња: *Interreg IPA* (Хрватска–Србија, Мађарска–Србија), *WBF (Western Balkans Fund)* и *Danube Strategic Project Fund*;
- Мреже за размену знања и мобилност: *COST* акције (као кључни алат за умрежавање), *Erasmus+* (пројекти изградње капацитета и мобилности), *DAAD*, *CEEPUS*, *Fulbright* програм и *Marie Skłodowska-Curie* акције (MSCA);
- Билатерална научна сарадња: Стратешко партнерство са истраживачким тимовима из Кине, Француске (програм "Павле Савић"), Словеније, Турске, Немачке и Аустрије.

Интензивна мобилност реализована је кроз специјализоване истраживачке боравке и краткорочне научне посете у водећим центрима Европе (Велика Британија, Немачка, Белгија, Холандија, Шпанија, Италија и др.), али и шире. Ови боравци директно су резултовали престижним наградама за најбоље радове и презентације на међународним конференцијама, чиме је потврђена глобална конкурентност нашег подмлатка.

Факултет дефинише научну изврсност као обавезујући професионални стандард кроз институционалне механизме:

- Нормативни стандарди: Објављивање рада у часопису са SCI листе представља обавезујући предуслов за одбрану докторске дисертације.
- Систем награђивања: Уводи се систем годишњег награђивања најуспешнијих младих истраживача, који се заснива на квантитативним и квалитативним индикаторима научне продуктивности (цитираност, кумулативни импакт фактор).
- Издавачка делатност: Студенти докторских студија активно се укључују у припрему публикација Факултета, чиме развијају компетенције у домену академског писања и уредништва.

Ангажовање научноистраживачког подмлатка на пројектима и њихова међународна афирмација резултовала је бројним коауторским радовима са колегама из земље и иностранства. Комплетна листа ових постигнућа, која рефлектује мултидисциплинарност и међународну умреженост наше институције, доступна је у оквиру Прилога 2: Библиографија НИО подмлатка.

Закључак

Програм развоја научноистраживачког подмлатка Технолошког факултета Нови Сад за период 2026–2031. године поставља јасан и амбициозан оквир за формирање будућих носилаца технолошког и друштвеног прогреса. Кроз интеграцију студената свих нивоа студија у међународне истраживачке мреже и доследно инсистирање на принципима научне изврности, Факултет превазилази оквире класичног образовања и израста у динамичан центар за развој глобално конкурентних научних лидера. Системска одрживост овог модела обезбеђује се континуираним трансфером знања и оспособљавањем младих истраживача за менторски рад, док фокус на научно предузетништво и зелену транзицију гарантује релевантност истраживања за потребе савремене привреде. Имплементацијом предвиђених мера, институција не само да афирмише свој положај у европском истраживачком простору, већ активно креира подстицајан амбијент у којем се иновативност, етика и научна продуктивност препознају као фундаментални стандарди професионалног развоја.

Прилози:

Прилог 1: Подаци о НИО подмлатку

Прилог 2: Библиографија НИО подмлатка

Председник Наставно-научног већа
Технолошки факултет Нови Сад

проф. др Зита Шереш, декан

Прилог 1: Подаци о НИО подмлатку

Р. Бр.	Име, презиме, звање	Ментор/саветник на докторским студијама	Статус докторских студија	Тема дисертације	План истраживања у наредном периоду
1.	Немања Бојанић Асистент са докторатом	Проф. др Александар Фиштеш, Проф. др Душан Ракић	Одбрањена докторска дисертација	Примена реверзибилности матрица уситњавања и методе одзивне површине за контролу ефеката уситњавања у технолошком поступку млевења пшенице	У наредном периоду, истраживања ће биће усмерена ка валоризацији споредних производа прехрамбене индустрије и примени математичких и статистичких модела са циљем оптимизације таквих процеса.
2.	Маја Буљовчић Асистент са докторатом	Проф. др Биљана Шкрбић	Одбрањена докторска дисертација	Тешки елементи и новооткривена органска загађујућа једињења у изабраним матриксама животне средине и процена ризика	Истраживање ће обухватити идентификацију и квантификацију емергентних загађујућих супстанци у земљишту, уз процену њихове дистрибуције, порекла и потенцијалног ризика по животну средину. Паралелно са експерименталним радом биће припремани и објављивани научни радови, укључујући прегледне и оригиналне чланке засноване на добијеним резултатима.
3.	Сандра Бучко Асистент са докторатом	Проф. др Јарослав Катона	Одбрањена докторска дисертација	Адсорпциона и емулгујућа својства протеинског изолата и хидролизата семена тикве (<i>Cucurbita pepo</i>)	Планирана су истраживања која се баве изолацијом и карактеризацијом појединих биомакромолекула из агро секундарних производа. Одреживање колоидних особина система формираних од изолованог материјала као и примена и анализа примене у реалним производима.
4.	Тања Лужаић Асистент са докторатом	Проф. др Ранко Романић	Одбрањена докторска дисертација	Могућности и ограничења производње хладно пресованог уља и погаче од семена одабраних хибрида сунцокрета најновијег сортимента	Побољшање функционалних својстава јестивих уља; Имплементација целулозних филтрационих средстава у процесу винтеризације уља; Валоризација нуспроизвода насталих у производњи хладно пресованих и рафинисаних уља;

5.	Милана Прибић Асистент са докторатом	Проф. др Јелена Пејин	Одбрањена докторска дисертација	Утицај примене тритикалеа На технолошке параметре квалитета пива	Валоризација споредних производа из технолошког процеса производње пива, уз испитивање њиховог биотехнолошког потенцијала и ширих могућности примене; производња пива са смањеним садржајем алкохола и оптимизација технолошког процеса.
6.	Ана Томић Асистент са докторатом	Проф. др Сениша Марков	Одбрањена докторска дисертација	Денитрификатор <i>Pseudomonas stutzeri</i> - изоловање, оптимизација биопроцесних параметара и примена	У наредном периоду план је да се испита примена денитрификатора из докторске дисертације у земљишту и другим нишама. Такође, испитаће се и могућност коришћења <i>Pseudomonas stutzeri</i> у биоминерализацији и производњи биосурфактанта.
7.	Невена Хромиш Асистент са докторатом	Проф. др Вера Лазић	Одбрањена докторска дисертација	Развој биоразградивог активног амбалажног материјала на бази хитозана: синтеза, оптимизација својстава, карактеризација и примена	У наредном периоду, истраживач ће се бавити синтезом, карактеризацијом и оптимизацијом својстава биополимерних филмова на бази хитозана изолованог из љуштуре инвазивног речног рака који се изловљава из реке Дунав. Уз овај правац истраживања, паралелно ће се бавити синтезом, карактеризацијом и оптимизацијом својстава биополимерних филмова на бази кутина изолованог из тропског воћа и поврћа.
8.	Дарио Балабан Асистент	Доц. др Предраг Којић	Одбрањена докторска дисертација	Симулација, анализа и оптимизација полигенеративног постројења за гасификацију комуналног отпада	Надоградња истраживања спроведеног у оквиру докторске дисертације. Наставак истраживања у области примене софтвера за симулацију технолошких процеса, као и моделовања технолошких процеса. Општа област истраживања је конверзија отпада у енергију.

9.	Сања Војводић Асистент	Проф. др Бранимир Павлић	Година студија III/2 + дисертација у фази планирања		Екстракција различитих биљних сировина породице Asteraceae применом конвенционалних и иновативних техника у циљу изоловања биолошки активних супстанци. Одабир оптималних екстракционих параметара за изоловање липофилних и хидрофилних једињења. Карактеризација биолошке активности добијених екстраката.
10.	Татјана Ђорђевић Асистент	-	Година студија III/9 -	-	У наредном периоду планирана су систематска истраживања усмерена на идентификацију и селекцију одговарајућих агроиндустријских нус-продуката са циљем њихове одрживе валоризације и добијања вредних компоненти. Истраживања ће обухватити развој и оптимизацију различитих поступака екстракције, као и физичко-хемијске, структурне и функционалне карактеризације добијених компоненти. Посебна пажња биће посвећена упоређивању ефикасности примењених технологија, разумевању односа између структуре екстраката и њихових карактеристика, као и процени њихове потенцијалне примене. Добијени резултати биће статистички обрађени и публиковани у релевантним међународним научним часописима, чиме ће се допринети развоју нових знања и одрживих стратегија управљања агроиндустријским отпадом.
11.	Јулијана Жеравица Асистент	Проф. др Драган Говедарица	Година студија III/3 + дисертација у фази планирања		Утицај својстава минералних и биљних екстендер уља на својства гуме и економичност процеса. Примена вештачке интелигенције и статистичких метода у производњи гуме.

12.	Ђурђица Карановић Асистент	Проф. др Милица Хаднађев-Костић	Одбрањена докторска дисертација	Примена хетерогених система на бази слојевитих хидроксида и мешовитих оксида за ефикасно уклањање полутаната из водених раствора: анализа фотокаталитичких и адсорпционих перформанси	Будућа истраживања обухватају испитивање фотокаталитичког деловања слојевитих хидроксида и мешовитих оксида у бинарним системима (2 полутанта). Оптимизација њиховог састава и површинских особина могла би довести до јачих синергистичких ефеката и ефикаснијег уклањања полутаната. Додатна испитивања стабилности и могућности поновне употребе биће кључна за примену у реалним условима.
13.	Јована Рајовић Асистент	Проф. др Јелена Додић	Година студија III/одсуство ради неге детета + пријављена тема докторске дисертације	Унапређење производње ксантана на отпадним водама прехранбене индустрије рецикулацијом ефлуената	Породиљско одуство (20.11.2024 до 17.03.2025. и 18.03.2025. до 20.11.2026-треће дете). Реализација завршне фазе експеримената, обрада резултата, писање докторске дисертације.

14.	Соња Стојанов Асистент	Проф. др Мирјана Јовичић	Година студија III/4 + дисертација у фази планирања	Радни назив: Утицај функционалних и одрживих адитива на умрежавање и својства композита на бази природне гуме	Циљ истраживања је испитивање утицаја различитих функционалних и одрживих адитива на процес вулканизације, структуру и својства композита на бази природне гуме. У првој фази биће анализиран ефекат зеолита 4А на кинетику умрежавања и механичка, морфолошка и термичка својства, с посебним фокусом на интеракције између површине пунила и компоненти вулканизационог система. У другој фази испитује се могућност замене конвенционалне чађи рециклираном чађи (рЦБ) кроз детаљну кинетичку анализу умрежавања, механичка и термичка испитивања, са циљем дефинисања оптималног учешћа рЦБ у композиту. Трећа фаза истраживања усмерена је на процену утицаја функционалних додатака, укључујући анализу реолошких, механичких и енергетских параметара, као и примену неуронских мрежа за предикцију својстава. Комбиновањем ових приступа, истраживање тежи развоју напредних, одрживих и функционалних еластомерних композита оптимизованих за индустријску примену.
15.	Ања Вучетић Истраживач сарадник	Проф др. Јасна Чанадановић- Брунет	Година студија III/3 + пријављена тема докторске дисертације	Нутриозомски комплекси функционалних једињења микробиља фамилије Brassicaceae,	Припрема прехранбеног производа обогаћеног нутриозомским комплексом и његова карактеризација и прихватљивост конзументима. Заокруживање комплетног истраживачког рада тезе и припрема за одбрану.

16.	Јована Дегенек Истраживач сарадник	Проф. др Катарина Канурић, др Владимир Вукић	Година студија III/5 + пријављена тема докторске дисертације	Биолошка активност свежег сира произведеног применом инокулума комбухе и додатком мајчине душице (<i>Thymus serpyllum</i> L.)	У наредном периоду истраживање ће бити усмерено на продубљено разумевање односа између структуре, функције и технолошких својстава протеинских компоненти у млеку и ферментисаним производима, уз интеграцију савремених аналитичких и <i>in silico</i> метода. Паралелно с тим, планира се јачање сарадње са европским истраживачким мрежама и привредом, посебно у областима одрживих прехранбених система, валоризације нуспроизвода и развоја функционалне хране са додатом вредношћу.
17.	Селена Дмитривић Истраживач сарадник	Проф. др Александар Јокић	Година студија III/4 + пријављена тема докторске дисертације	Примена природних флокуланата за примарно издвајање биомасе <i>Bacillus</i> sp. добијене култивацијом на отпадним водама прехранбене индустрије	Даљи план истраживања надовезује се на тему докторске дисертације и обухвата примену дуалних флокуланата у процесу издвајања биомасе, са посебним нагласком на оптимизацију услова који утичу на ефикасност флокулације. Такође, планирана је и примена машинског учења у моделовању процеса флокулације.
18.	Слађана Кривошија Истраживач сарадник	Проф. др Сенка Видовић	Година студија III/3 + пријављена тема докторске дисертације	Нови концепти зелене екстракције и енкапсулације за валоризацију различитих токова пољопривредно- прехранбеног отпада	Валоризација пољопривредно-прехранбеног отпада применом зелених екстракционих технологија и сушења "spray drying" технологијом, уз оптимизацију хемијских и физичких параметара ради добијања висококвалитетних финалних производа.

19.	Марија Крстић Истраживач сарадник	Проф. др Иван Ристић	Година студија III/4 + пријављена тема докторске дисертације	Оптимизација синтезе проводних полимерних мрежа кроз анализу утицаја надмолекулске структуре на перформансе	Истраживање ће бити усмерено на рад на докторској дисертацији, где ће се синтетисани узорци детаљно анализирати у циљу структурне, термичке, морфолошке, механичке и електрохемијске карактеризације. Поред тога, истраживање ће обухватити и развој нових проводних полимера. Планиран је и активан ангажман на текућим домаћим и међународним пројектима, као и јачање сарадње са привредом.
20.	Јелена Марић Истраживач сарадник	Доц. др Никола Маравић	Година студија III/3 + пријављена тема докторске дисертације	Уклањање емергентних загађујућих супстанци из воде применом напредних сепарационих процеса	У наредном периоду ће се обрађивати прикупљени лабораторијски подаци везани за мембранске технологије и примену полисахарида у прехранбеној индустрији. Дискутоваће се и обрађивати добијени резултати, уз припрему научних радова за публикавање у научним часописима. Такође, планирани су и додатни експерименти из области мембранских технологија.
21.	Теодора Марић Истраживач сарадник	Проф. др Гордана Ђетковић	Година студија III/3 + пријављена тема докторске дисертације	Циркуларни модел валоризације прехранбеног отпада за развој и примену биофунгицида у превенцији контаминације воћа и поврћа после бербе	Извођење последње фазе истраживања, применом формулације биофунгицида на одабраном воћу/поврћу. Припрема узорака за сензорску оцену формулације. Комплетирање урађених анализа и писање докторске тезе.
22.	Јелена Остојић Истраживач сарадник	Проф. др Јарослав Катона	Година студија III/4 + пријављена тема докторске дисертације	Биополимерни материјали добијени интеракцијама фиброина свиле и полиелектролита	Планирана истраживања се базирају на примени биополимерних материјала из фиброина свиле и полиелектролита. Поред тога, истраживања укључују и функционализацију филмова и прилагођавање карактеристика према потребама савремених трендова, као и проширење истраживања на друге биомакромолекуле.

23.	Јована Пантић Истраживач сарадник	Проф. др Сенка Поповић	Година студија III/4 + пријављена тема докторске дисертације	Валоризација коштице шљиве кроз производњу нових биополимерних филмова	У току је израда докторске дисертације након завршеног истраживања о композитним биофилмовима на бази целе уљане погаче шљиве и о протеинским биополимерним филмовима на бази протеинског изолата шљиве. Планира се апликација оптимизованих биополимерних материјала на различите намирнице.
24.	Ведрана Пророк Истраживач сарадник	Проф. др Светлана Поповић, Проф. др Дејан Моврин	Одбрањена докторска дисертација	Интензификација процеса мембранске филтрације применом 3D штампаних промотора турбуленције	План истраживања обухвата модификацију геометријског облика и карактеристичних димензија уврнутих трака (које су примењене у оквиру докторске дисертације) као промотора турбуленције, са циљем унапређења њихових карактеристика за интензификацију мембранске филтрације. Оваквим приступом очекује се смањење прљања мембрана уз минималну потрошњу енергије. Поред тога, планира се употреба природних узорака са подручја богатијих хумичном киселином уместо синтетичких, уз паралелну примену CFD анализе ради детаљнијег разумевања хидродинамичких појава. Ово ће омогућити валидно научно истраживање и допринети примени у индустријама керамичких мембрана и промотора турбуленције израђених помоћу 3D штампе. Очекује се да резултати истраживања пруже значајан допринос у развоју енергетски ефикасних и одрживих технологија филтрације.

25.	Душан Ракић Истраживач сарадник	Проф. др Зита Шереш, др Игор Антић	Година студија III/3 + пријављена тема докторске дисертације	Анализа узорака обрадивог земљишта и шећерне репе применом савремених метода на бази масене спектрометрије ради одређивања присуства и расподеле емергентних загађујућих супстанци	Обрада добијених резултата коришћењем софтверских пакета „Microsoft Office Excel“, „Compound discoverer“, интерпретација резултата, писање докторске дисертације. Примена напредних софтверских решења (Compound Discoverer) у идентификацији једињења за која се сматра да потенцијално могу бити присутна у матриксама животне средине (земљишту и шећерној репи). Формирање базе података једињења од значаја за дату регију (северна Србија) и пољопривредну производњу (начин произвође и тип биљне културе) и омогућавање доступности добијених података широј научној заједници и доносиоцима одлука кроз депоновање генерисаних података масених спектра на доступне репозиторијуме.
26.	Бењамин Салаковић Истраживач сарадник	Проф. др Страхиња Ковачевић	Одбрањена докторска дисертација	Компаративна хеометријска анализа хроматографске липофилности и микробиолошке активности алкил и циклоалкил деривата симетричних триазина	У наредном периоду планира се примена хеометријских и статистичких техника у процесу унапређења технологија различитих индустрија попун индустрије угљених хидрата, фармацеуске индустрије као и пољопривреде. Софтверима за рачунарску хемију планира се оптимизација структуре као и предладање синтеза нових органских једињења са широким спектром дејства.

27.	Синиша Симић Истраживач сарадник	Проф. др Сенка Видовић	Година студија III/4 + пријављена тема докторске дисертације	Примена зелених екстракционих технологија и <i>spray drying</i> технике за добиање нових екстраката цвета зове и хербе панонског тимијана	Завршно експериментално истраживање на добиајеним сувим праховима. Анализирање физичких (величина честица, сарджај влаге, активност воде, растворљивост, насипна запремина и боја), као и хемијских карактеристика (садржај биоактивних једињења) добијених сувих прахова. Објава два научна рада са оствареним резултатима. Писање докторске дисертације.
28.	Милица Стожинић Истраживач сарадник	Доц. др Ивана Лончаревић	Година студија III/2 + дисертација у фази планирања	Протеини анималног порекла као замењивачи масти и додатни извори протеина у какао крем производима	Наредна фаза ће обухватити формулисање олеогелова и њихову примену у какао крем производима. Затим, извршиће се комплетна физичко-хемијска карактеризација добијених производа.
29.	Мирјана Сулејмановић Истраживач сарадник	Проф. др Сенка Видовић	Година студија III/3 + пријављена тема докторске дисертације	Савремене методе екстракције отпада индустрије филтер чаја - хербалне прашине ђумбира (<i>Zingiber officinale</i>), хемијски састав и биолошка активност одабраних екстраката	План истраживања обухвата оптимизацију процеса екстракције биоактивних једињења из хербалне прашине ђумбира. На основу добијених резултата, екстракти са оптималним деловањима и садржајем биоактивних једињења биће даље преведени у прашкасто стање у циљу даље примене у креирању функционалних производа.
30.	Даница Божовић Истраживач приправник	Проф. др Бранимир Павлић	Година студија III/2 + дисертација у фази планирања		Изоловање биоактивних једињења из различитих споредних производа биљног материјала применом различитих екстракционих техника. Оптимизација примењених техника екстракције и карактеризација добијених екстраката.
31.	Мина Боснић Истраживач приправник	Проф. др Јадранка Фрај	Година студија III + дисертација у фази планирања		Испитивање могућности инкорпорирања козметички активних супстанци у биополимерне филмове. Испитивање отпуштања козметички активних супстанци из филмова и њихове антиоксидативне активности. Испитивање могућности примене оваквих носача у козметичкој индустрији.

32.	Исидора Влаовић Истраживач приправник	Проф. др Гордана Ћетковић	Година студија III + дисертација у фази планирања		Планирање и извођење експеримената у циљу дефинисања теме дисертације.
33.	Јелена Вукосављевић Истраживач приправник	Проф. др Бранимир Павлић	Година студија III + дисертација у фази планирања		Валоризација пољопривредног и прехрамбеног отпада у циљу изоловања биоактивних једињења помоћу савремених техника екстракције, као и проналажење најефикасније еколошке и економски најприхватљивије методе.
34.	Ленка Грубач Истраживач приправник	Проф. др Јелена Пејин	Година студија III + дисертација у фази планирања		Валоризација споредних производа из технолошког процеса производње пива; екстракција високовредних компонената хмеља, испитивање и одређивање њиховог биолошког потенцијала, као и њихова шира примена.
35.	Татјана Дујковић Истраживач приправник	Проф. др Јована Граховац	Година студија III/2 + пријављена тема докторске дисертације	Развој биопроцесних решења за валоризацију отпада винарије кроз производњу микробиолошких препарата за одрживу пољопривреду	Даља истраживања биће усмерена ка безбедности употребе оваквих препарата у смислу могућег ширења антибиотске резистенције и потенцијалне продукције токсина. Такође ће се радити <i>in vivo</i> испитивања директног утицаја ових препарата на биљке и испитати могућност њихове примене у реалним условима.
36.	Марко Зељко Истраживач приправник	Проф. др Јелена Додић	Година студија III/2 + пријављена тема докторске дисертације	Развој концепта биорафинерије за валоризацију ефлуената технологије хладно пресованих уља у производњи биосурфактанта манозилеритритол липида	Истраживања усмерена на развој поступака производње комбуха напитка и комбуха сирћета применом алтернативних супстрата. Истраживања у оквиру развоја поступка производње биосурфактанта манозилеритритол липида.

37.	Марија Ковач Истраживач приправник	Проф. др Снежана Вучетић	Година студија III + дисертација у фази планирања		Развијање цементних материјала са додатком отпада од грађења и рушења (CDW) као секундарног сировинског материјала. Оптимизација производног процеса одређивањем одговарајућег састава сировинског композита и снижењем максималне температуре термичког третмана са задржавањем карактеристика и квалитета добијеног цемента у припремљеном бетону или цементној пасти. Карактеризација синтетисаног цемента и припремљених цементних пасти и бетона недеструктивним (XRF, FTIR, UPV, микроскопија) и деструктивним (XRD, притисна и савојна чврстоћа, живина порозиметрија, поларизациона микроскопија, SEM/EDS) методама карактеризације.
38.	Ива Токовић Истраживач приправник	Проф. др Владимир Срдић	Година студија III + дисертација у фази планирања		У наредном периоду се планирају истраживања везано за симулације и моделовање материјала на бази лантан- манганита у оквиру теорије функционала густине као и добијање танких лантан- манганитних филмова.
39.	Тара Будимац Стипендиста	Проф. др Александра Ранитовић	Година студија III/2 + пријављена тема докторске дисертације	Примена инкапсулираних пробиотских сојева за добијање комбуха напитка побољшаних функционалних карактеристика	Израда експерименталног дела докторске дисертације (испитивање различитих носача и метода инкапсулације пробиотских бактерија; праћење тока ферментације комбухе и одрживости добијеног пробиотског напитка; испитивање биолошке активности); Обрада добијених резултата, припрема за публиковање научних радова и извода радова и учествовање на научним конференцијама.
40.	Сара Хоурани Стипендиста	Проф. др Бранимир Павлић	Година студија III + дисертација у фази планирања		Антиоксидативни и биолошки тестови на екстрактима свих сировина. Обрада резултата масене спектрометрије. Писање радова из добијених резултата.

41.	Теодора Јеврић Стипендиста	Доц. др Милица Караџић Бањац	Година студија II + дисертација у фази планирања		Припрема експерименталних протокола, припрема и извођење лабораторијских експеримената. Прикупљање и анализа података у одабраним софтверима. Учествовање у стручним и научним радионицама. Рад ће укључивати новосинтетисане деривате стероида, њихову HPLC анализу, анализу молекулског докинга, класификационе и регресионе хеометријске технике.
42.	Милица Панков Стипендиста	Проф. др Снежана Вучетић	Година студија II + дисертација у фази планирања		Планиран је развој „зелених“ грађевинских материјала из индустријског и комуналног отпада, уз наставак истраживања заштите културног наслеђа и неутронске томографије археолошких материјала.
43.	Теодора Субић Стипендиста	Проф. др Драгана Лукић	Година студија II + дисертација у фази планирања		Примена процеса адсорпције за уклањање органских и неорганских полутаната из отпадне воде. Испитивање ефикасности различитих биосорбената у ту сврху, на шаржном и континуалном систему. Оптимизација читавог процеса ради постизања што боље способности адсорпције.

Прилог 2: Библиографија НИО подмлатка

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	Библиографска јединица	Категорија
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