

# Razpis za podoktorskega raziskovalca na Odseku za znanosti o okolju

## Naziv delovnega mesta:

Asistent z doktoratom (m/ž)

**Področje:** okoljsko zdravje / molekularna biologija

## Opis del in nalog:

Izbrani kandidat/kandidatka bo v okviru populacijskih študij okoljske izpostavljenosti izvajal/a in vpeljeval/a molekularne tehnike za namen raziskovanja genske občutljivosti ter zgodnjih bioloških učinkov izpostavljenosti okoljskim onesnažilom. Njegove/njene ključne naloge bodo:

- organizacija in nadzor dela v molekularnem laboratoriju;
- delo s humanimi biološkimi vzorci (kri, urin, popkovno tkivo, placenta idr.);
- izolacija DNA in RNA iz različnih humanih tkiv in tekočin;
- izvajanje in nadzor molekularnih tehnik, zlasti PCR, qPCR ter sorodnih metod;
- načrtovanje, izvajanje in nadzor genotipizacije humane DNA;
- vzpostavitev, optimizacija in validacija postopkov za analize ekspresije RNA;
- uvedba metod s področja epigenetike (npr. metilacija DNA);
- sodelovanje pri raziskavah, ki preučujejo:
  - obremenjenost splošne populacije s kemikalijami iz okolja,
  - gensko občutljivost posameznikov na okoljske izpostavljenosti,
  - biološke učinke okoljskih dejavnikov;
- sodelovanje pri pripravi raziskovalnih projektov, poročil in razpisne dokumentacije ter objavljane znanstveno-raziskovalnih in raziskovalno-razvojnih del;
- predstavitve na mednarodnih srečanjih;
- usposabljanje v tujini;
- mentoriranje in strokovni nadzor študentov in tehničnega osebja.

## Zahtevana izobrazba in usposobljenost:

- doktorat znanosti (PhD) s področja biologije, biokemije, molekularne biologije, biomedicine ali sorodnih ved;
- poglobljeno znanje in večletne izkušnje z delom v molekularnem laboratoriju;
- izkušnje z:
  - izolacijo in analizo humane DNA,
  - PCR in sorodnimi molekularnimi tehnikami,
  - genotipizacijo humane DNA;
- zaželeno so izkušnje z analizami RNA in metodami s področja epigenetike.

## Posebni pogoji

- izvolitev v naziv »asistent z doktoratom«;
- sposobnost samostojnega raziskovalnega dela;
- mentorske sposobnosti.

**Pričakovana znanja in kompetence:**

- natančnost, odgovornost in zanesljivost pri laboratorijskem delu;
- sposobnost kritičnega razmišljanja in reševanja problemov;
- dobro znanje angleškega jezika (pisno in ustno);
- sposobnost timskega dela in interdisciplinarnega sodelovanja.

**Nudimo:**

- z izbranim kandidatom/kandidatko bomo sklenili delovno razmerje za določen čas za obdobje 2 let z možnostjo podaljšanja in poskusno dobo 3 mesecev;
- izhodiščni plačni razred delovnega mesta je 31.
- delo v raziskovalno usmerjenem, interdisciplinarnem okolju;
- možnost razvoja in uvajanja naprednih molekularnih metod;
- sodelovanje v nacionalnih in mednarodnih raziskovalnih projektih;
- možnosti strokovnega in znanstvenega razvoja.

Delovno mesto je na lokaciji Reaktorskega centra, Brinje 40, 1262 Dol pri Ljubljani.

Prijave sprejemamo na elektronski naslov [anja.tratnik@ijs.si](mailto:anja.tratnik@ijs.si) do 15. 4. 2026. Kandidati naj prijavi priložijo kratek življenjepis (CV) z dokazili o izpolnjevanju pogojev ter motivacijsko pismo.

## **Call for a Postdoctoral Researcher at the Department of Environmental Sciences**

### **Position title:**

Research Assistant (PhD) (m/f)

**Field:** Environmental health / Molecular biology

### **Job description and responsibilities:**

The selected candidate will perform and implement molecular techniques to investigate genetic susceptibility and early biological effects of human exposure to environmental pollutants. Their key responsibilities will include:

- Organizing and supervising work in the molecular laboratory;
- Working with human biological samples (blood, urine, umbilical tissue, placenta, etc.);
- Isolation of DNA and RNA from various human tissues and fluids;
- Performing and supervising molecular techniques, especially PCR, qPCR, and related methods;
- Planning, performing, and supervising genotyping of human DNA;
- Establishing, optimizing, and validating procedures for RNA expression analyses;
- Introducing methods from the field of epigenetics (e.g., DNA methylation);
- Participating in research investigating:
  - exposure levels of the general population to environmental chemicals,
  - genetic susceptibility of individuals to environmental exposures,
  - biological effects of environmental factors;
- Participating in the preparation of research projects, reports, grant application documentation, and publishing scientific-research and research-development works;
- Presentations at international meetings;
- Training abroad;
- Mentoring and providing professional supervision to students and technical staff.

### **Required education and qualifications:**

- PhD in biology, biochemistry, molecular biology, biomedicine, or a related field;
- In-depth knowledge and several years of experience working in a molecular laboratory;
- Experience with:
  - isolation and analysis of human DNA,
  - PCR and related molecular techniques,
  - genotyping of human DNA;
- Experience with RNA analyses and epigenetics methods is desirable.

### **Special Conditions**

- Appointment to the title “Assistant with a PhD”;
- Mentoring abilities;
- Ability to conduct independent research.

**Expected knowledge and competencies:**

- Precision, responsibility, and reliability in laboratory work;
- Ability to think critically and solve problems;
- Good command of English (written and spoken);
- Ability to work in a team and collaborate in interdisciplinary environments.

**We offer:**

- The selected candidate will be employed for a fixed term of 2 years, with the possibility of extension, and with a 3-month probationary period.
- The starting salary grade for the position is grade 31
- Work in a research-oriented, interdisciplinary environment;
- Opportunities to develop and implement advanced molecular methods;
- Participation in national and international research projects;
- Opportunities for professional and scientific development.

The position is located at the Reactor Centre, Brinje 40, 1262 Dol pri Ljubljani, Slovenia.

Applications should be submitted by email to [janja.tratnik@ijs.si](mailto:janja.tratnik@ijs.si) no later than 15 April 2026. Applicants should include a short curriculum vitae (CV) with proof of meeting the requirements and a motivation letter.