

Computational Molecular Modelling Research Assistant

We are seeking a motivated Research Assistant to join our **Bioelectrodynamics research team**, at the **Institute of Photonics and Electronics, Czech Academy of Sciences in Prague**.

The position will focus on **supporting high-performance computing (HPC) infrastructure** and **molecular dynamics simulations** in the field of computational biophysics. The role may also serve as a pathway towards starting a PhD in our group for interested and qualified candidates.

Key Responsibilities:

- Maintain and manage the group's computer cluster and workstations.
- Install, configure, and update **Linux operating systems** on desktops and servers.
- Install and manage **scientific software packages** for molecular modeling and simulations.
- Prepare, submit, and monitor **molecular dynamics simulation jobs** on local and remote HPC systems.
- Provide technical support and troubleshooting for research staff.

Qualifications:

- Completed or pursuing bachelor's or master's degree in computer science, **Physics, Chemistry, Bioinformatics, or related field**.
- Strong knowledge of **Linux system administration** (installation, configuration, package management).
- Familiarity with **HPC clusters, job schedulers (SLURM, PBS, etc.), and remote access tools (SSH, SCP, etc.)**.
- Experience with **molecular dynamics simulation packages** (e.g., GROMACS, AMBER, NAMD, CHARMM) is a strong advantage but not necessary.
- Ability to work independently as well as collaboratively within a research team.

We Offer:

- An opportunity to contribute to **cutting-edge bioelectrodynamics research**, see bioed.ufe.cz.
- Hands-on experience with **HPC systems** and **molecular modeling workflows**.
- A **collaborative and international** research environment.
- Possibility of advancing to a **PhD position** in our team.
- **Part time work** possibility (0.5-1 FTE) and **flexible working hours**
- Opportunities for personal growth and gaining new expertise in the field
- **5 weeks of vacation** and 3 sick day leave yearly (at full-time employment)
- A **friendly and supportive team** of colleagues

- A **wide range of benefits** (meal allowance, contributions to pension or life insurance, support for sports activities – Multisport card)
- Access to language courses, **professional training**, and **support for further education**

Application Process:

Interested candidates should submit:

- A **CV/resume**
- A **brief statement of interest** (max 1 page)
- Contact information for **references**

 To send your application follow this form: <https://forms.cloud.microsoft/e/K5LXFXQz23>

 Application deadline: 12th November