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RDP Pharma AG

## Industrial Post-Doctoral Position in Molecular Dynamics and Virtual Screening (all)

We are seeking a highly motivated and skilled Post-Doctoral Researcher to join our dynamic team in the field of Molecular Dynamics and Virtual Screening. The successful candidate will contribute to cutting-edge research in drug discovery and molecular simulations, with a focus on utilizing computational methods to identify potential drug candidates in collaboration with our partner company RDP Pharma AG.

### Your responsibilities:

- Perform molecular dynamics simulations to investigate the behaviour of biological molecules and their interactions with ligands.
- Conduct virtual screening studies to identify potential drug candidates against specific targets.
- Analyze simulation data and virtual screening results to provide valuable insights for drug design.
- Collaborate with multidisciplinary teams to integrate computational findings with experimental data.
- Stay up to date with the latest advancements in the field and contribute to the scientific community through publications and presentations.

### Your Requirements:

- Ph.D. in Chemistry, Medicinal Chemistry, Biochemistry, Biophysics, Computational Biology, or a related field.
- Strong background and hands-on experience in molecular dynamics simulations and virtual screening techniques.
- Proficiency in programming languages commonly used in computational chemistry/biology (e.g., Python, or similar).
- Familiarity with molecular modelling software such as OPENMM, AMBER, or CHARMM.
- Demonstrated track record of scientific achievements through publications in peer-reviewed journals.
- Excellent analytical and problem-solving skills.
- Effective communication and collaboration abilities.

### Preferred Qualifications:

- Experience with free energy calculations or enhanced sampling techniques.
- Knowledge of machine learning methods applied to drug discovery.
- Understanding of structural bioinformatics and protein-ligand interactions.
- Previous involvement in research projects related to drug discovery or computational chemistry.



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**Application Process:** Interested candidates should submit the following application materials in English:

1. Cover letter detailing their research interests and how their skills align with the position.
2. Curriculum Vitae (CV) with a list of publications.
3. Contact information of at least two academic/professional references.

Please submit your application to [info@rdp-pharma.com](mailto:info@rdp-pharma.com). Shortlisted candidates will be contacted for further steps in the selection process.

**Apply Now:** If you're passionate about shaping the future of novel molecules in drug discovery, we'd love to hear from you. Join us in making a difference in the world of biotechnology!

**About RDP Pharma AG:** RDP Pharma is a privately held biotech, dedicated to deliver valuable medicines to patients in need. RDP develops innovative monovalent protein degrader small molecules targeting IDRs in proteins with international partners and employees from Europe, America, and Asia.

**The University of Padova:** The University of Padova, founded in 1222 in Padua, Italy, is one of the world's oldest and most prestigious universities. It is renowned for its research and education across various disciplines. The position is at the MMS (Molecular modelling section) of the Department of Pharmaceutical and Pharmacological Sciences.

**Note:** Please ensure all documents are in PDF format and include "Post-Doc Application - [Your Name]" in the subject line of the email. Incomplete applications may not be considered.