WE ARE LOOKING FOR AN ACTIVE, HIGHLY QUALIFIED

SENIOR SCIENTIST (M/F/X)

MOLECULAR MODELING AND SIMULATION

REF. NO. SK80

DUTIES AND RESPONSIBILITIES:

- Apply state-of-the-art molecular simulation technologies, both classical and/or DFT based approaches, to establish properties and understand/predict the behavior of materials related to pharmaceutical formulations and drug delivery, (e.g. the estimation of tribo-electrification, transition state energies, interaction energies and molecular mobilities in the amorphous phase, homology modelling and molecular dynamics simulation of proteins or nucleic acids)
- Develop new scientific ideas, methods and technologies
- Actively participate in project teams/meetings/scientific networks
- Report and present scientific/technical results and contribute to publications & presentations

REQUIREMENTS:

- A PhD in a field related to the tasks of the project (theoretical chemistry, bio-physics, or chemical engineering)
- Experience in the use of molecular simulation at various levels of theory (ab-inito/DFT, molecular mechanics and dynamics, coarse grained simulations) applied to organic crystals, polymers, proteins, lipids, nucleic acids etc.
- A good background in physical chemistry, statistical mechanics, and related fields
- A good working knowledge of at least one programming and/or scripting language that is commonly used in this field (C, C++, python, perl etc.)
- You are familiar with Unix/Linux systems, and you can navigate on the command line
- Ideally you are familiar with advanced simulation methodologies, such as extended ensemble techniques or metadynamics, have experience in the optimization of classical empirical force fields, and/or have experience in applying ab-initio methods for calculation of bulk material properties
- Professional conduct and communication skills in dealing with international clients, partners and colleagues
- Interest and experience in performing top-level and target-oriented research at the interface of basic science and industrial application
- Good English language skills, written and spoken

WE OFFER:

- A multidisciplinary and dynamic research environment and access to highly modern infrastructure on campus of Graz University of Technology
- Opportunities for career development at the academic and industrial level
- A competitive salary (min. €49,000,- gross/year, overpayment - depending on qualification - possible)

WE ARE LOOKING FORWARD TO RECEIVING YOUR APPLICATION BY INDICATING THE REF. NO. AND INCLUDING A COVER LETTER, YOUR CV, PUBLICATION TRACK RECORD AND CREDENTIALS!

Contact:
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