RESEARCH ASSOCIATE PROTEIN CHEMISTRY (F/M/D)

RESEARCH AND DEVELOPMENT
FROM IDEA TO PROTOTYPE

Our institute ranks among the largest and most modern institutions in the field of low-temperature plasmas worldwide. In an international working environment, we conduct socially relevant research within our core areas Materials & Energy and Environment & Health. Currently the INP employs about 200 scientists and staff at three locations (Greifswald, Rostock and Karlsburg).

For our mass spectrometry team the INP is seeking to hire as soon as possible a

RESEARCH ASSOCIATE (F/M/D) PROTEIN CHEMISTRY
Fixed term contract until December 2022/ Full time (40 hours/week) or part-time appointment / Target salary: TV-L/E13

YOUR FIELD OF ACTIVITY:
Cold plasmas are heterogeneous phenomena used in clinical settings to treat cancer or chronic wounds. The molecular basis of their effectiveness is not fully resolved yet, but the reactivity of small reactive oxygen and nitrogen species is known to contribute significantly, placing our main research area into the realm of redox biology. To drive the understanding further, we are investigating the introduction of oxidative modifications in proteins by plasma-derived ROS/RNS and their respective impact on the protein’s structure and functionality. You will have access to proven plasma sources, recent research instruments, and profit from national and international collaborations. The position can be transferred into a PhD student position when the funding situation and the candidates profile allow this.

YOUR KEY RESPONSIBILITIES:
- You will plan and perform experiments on protein oxidation and use established procedures for sample preparation and measure these with high-resolution mass spectrometry;
- In addition, you will develop the current approach beyond its current limits, focusing high data accuracy and reliability
You will learn and develop data analysis strategies using most recent bioinformatics tools;
- In collaborations with colleagues you will investigate the proteins (residual) functionality and potential downstream processes;
- You interact with an interdisciplinary team/collaborators from physicists to medical staff;
- You present your results on scientific conferences and publish them in peer reviewed journals.

**Requirements**
- University-level qualification (Master of science degree or German diploma) and nice to have a PhD in a life science topic or related fields of natural science
- Solid natural science background, knowledge/experience in biochemistry and proteins desirable
- Knowledge and experience in instrumental analytics, especially mass spectrometry and liquid chromatography, beneficial
- Experience and/or willingness to adapt bioinformatics tools
- Flexibility, dedication, detail orientation, enthusiasm, team working

**Application procedure (deadline etc.)**

**OUR OFFER FOR YOU:**
- Compensation according to the collective salary agreement of Länder (TV-L) including employer contributions to medical and dental insurance, maternity leave and retirement benefits
- Creative work environment
- State-of-the-art technical facilities
- Networking opportunities at national and international conferences and in cooperation with national and international industry partners
- Possibility of designing and implementing own project ideas
- Internal laboratory tours ("What do the colleagues do?")
- In-house training (e.g. project management, scientific writing, writing project proposals, German language course)
- Flexible working hours and mobile working offers
- 30 vacation days per year (plus: 24 and 31 December)
- Sports courses in our institute rooms
- Staff kitchen

**Contact**
For further information and inquiries, please contact Dr.-Ing. Philipp Mattern (email: philipp.mattern@inp-greifswald.de, phone: +49 38355 6686 2500).

Please send your applications to*:

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Mrs. Gabriele Lembke
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* Unfortunately, we cannot refund any of your expenses for applications and job interviews due to budgetary regulations.