Job posting

Type of position
- × scientific graduates
- ☐ administrative

Target group
- × post docs
- ☐ other

Title
RESEARCH SCIENTIST (F/M/D) SOLID STATE MATERIALS AND MATERIALS ENGINEERING

Institution
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).

Position
For our Research Group Materials for Energy Technologies the INP is seeking to hire – subject to the future commitment of funds - starting on 1st October 2020 an enthusiastic

RESEARCH SCIENTIST (F/M/D) SOLID STATE MATERIALS AND MATERIALS ENGINEERING

Fixed term contract for 24 months / Full-time appointment (40 hours/week) / Target salary: TV-L (pay scale area East)/E13

Responsibilities
The primary objective of this position will be the development of new manufacturing routes for deposition of perovskite ceramic thin films for proton conducting ceramic membranes, within the frame of CAMPFIRE, a research project of the region North-East in Germany within the frame of WIR!- Wandel durch Innovation in Region [regional development through innovation] of the Federal Ministry of Education and Research. Our vision is to develop and implement economically viable technologies for decentral production of green ammonia from air and water by means of renewable energy as well as utilization of ammonia as a future maritime shipping fuel.

The Campfire alliance joins over 40 small, medium and large enterprises in the renewable energy sector, chemical industry and shipping industry, universities and research institutes as well as climate protection agencies within the region North-East, Germany, Poland and Norway in an Open Innovation Approach. Main focus of the project work at INP is on development of ceramic thin films manufactured by magnetron sputtering and subsequent laser annealing processes for thin film activation. Process optimization is accompanied by investigation of
crystallographic and structural properties of perovskite thin films as well as investigation into electrochemical properties.

Requirements

We seek candidates at PhD level in Material Science, Nanotechnology, Materials Engineering or Solid State Chemistry or related fields with a background in ion and mixed conducting complex metal oxides such as perovskites. Knowledge in crystallography and characterization of structural properties by X-ray (XRD) is essential. The candidate will also ideally have skills in electrochemistry and characterization of transport properties of electroceramic materials and good knowledge in energy technologies. The candidate must work systematically and solution orientated with a high research competence. Ability to work in a closely interlinked project team and meeting tight deadlines are necessary, as well as good language skills in English, both written and oral. Documented academic and project development skills are required, as well as the ability and ambition to write scientific publications, prepare project applications and carry out project management.

Application procedure (deadline etc.)

OUR OFFER FOR YOU:

- Compensation according to the collective salary agreement of Länder (TV-L, pay scale area East) 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 home-office offers
- 30 vacation days per year (plus: December 24 and 31)
- Sports courses in our institute rooms

HOW TO APPLY

Please apply with the common documents (cover letter, CV, copies of academic degrees and letters of reference) giving the keyword „0366 Research Scientist“ - preferably via our online application - until September 25th 2020.

Your performance and personality matters regardless of your age, origin, gender, sexual identity, disability or ideology. We
look forward to receiving your applications!

The INP wants equal participation of men and women, especially in science. There are many good reasons why it is worthwhile to promote the potential of women specifically. Qualified women candidates are explicitly called to apply. Handicapped applicants will be preferred in case of equal qualification.

**Contact**

For professional information and inquiries, please contact Dr. Angela Kruth (Tel.: 03834-554 3860; E-Mail: angela.kruth@inp-greifswald.de).

Please send your applications to*:

Leibniz-Institute for Plasma Science and Technology (INP)
Mrs. Gabriele Lembke
Human Resources Department
Felix-Hausdorff-Str. 2
17489 Greifswald
E-Mail: bewu@inp-greifswald.de

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