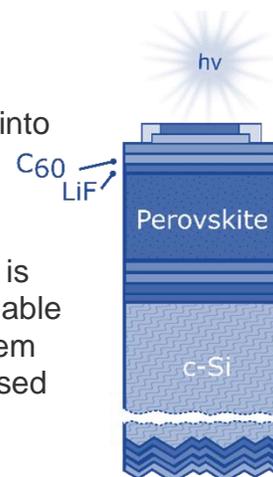


Ph.D./Postdoctoral Position (f/m/d) on Stable Perovskite Tandem Photovoltaics

The (Radiation-) **Tolerant Electronics with Soft Semiconductors (ROSI)** Freigeist Group and the **PotsdamPero Group** at the University of Potsdam invites applications for a Ph.D./Postdoctoral Position.

Background: Metal-halide perovskites are a promising material class for future photovoltaic (PV) applications, especially with regard to their integration with silicon into tandem solar cells. These tandem cells have been widely investigated since 2015, and especially over the last few years the community has experienced an immense growth in knowledge and success in the development of silicon/perovskite tandem solar cells. To lay the foundation for further performance and stability improvements is project aims at developing and applying innovative characterization methods that enable a global analysis of the loss and degradation mechanisms in perovskite/silicon tandem cells. Further, the development of an efficient contact system replacing standardly used C₆₀ ETL contacts is part of the project.



Your project:

- Development of innovative characterization methods for perovskite/silicon tandem solar cells
- Characterization of the loss and degradation mechanisms in perovskite/silicon tandem solar cells
- Development of efficient contact systems for high-performance perovskite subcells

Required skills and experience:

- M.Sc. or PhD in Physics/Chemistry or equivalent
- Great enthusiasm for science and a keen interest in novel photovoltaics
- Experience with halide perovskites, solar cells, tandem photovoltaics, characterization

We offer:

- Device development crosslinked with advanced electrical, optical & structural characterizations.
- Open space for new ideas and interdisciplinary studies within a highly motivating and friendly team.
- Salary according to 65% TVÖD E13, limited to 3 years (Ph.D.)
- Salary according to 100% TVÖD E13, limited to 2 years (Post. Doc)
- Equal opportunities regardless of gender, age, ethnic origin, religion or disabilities.

We are:

The (Radiation-) **Tolerant Electronics with Soft Semiconductors (ROSI)** Freigeist Group and the **PotsdamPero Group**. As an interdisciplinary research group at the University of Potsdam, we focus on the development of highly efficient halide perovskite solar cells and an deep understanding of their working-, stability- and loss- mechanisms though advanced characterization methods.

Join us today! Interested candidates are encouraged to mail their CV and motivation letter to Dr Felix Lang (felix.lang.1@uni-potsdam.de) More information can be found at <https://www.unipotsdam.de/de/pwm/rosi-group> & <https://www.unipotsdam.de/de/pwm/perovskite-group>