



*The Institute of Applied Physics (IAP) at the Friedrich Schiller University Jena practices in fundamental and applied research in the fields of micro and nano optics, fiber and waveguide optics, ultrafast optics as well as optical engineering. Current research topics of the research group "Ultrafast Optics" concern the development of new concepts for catalytic processes.*



## 1x Junior Research Group Leader (f/m) & 2x Research Assistants (f/m)

### Job description:

The world faces tremendous challenges in environmental technology, as the emission of greenhouse gases has to be reduced rapidly and significantly to achieve climate goals. One of the main unsolved problems is the lack of technology for energy storage. A promising approach is the conversion of exhaust gases (CH<sub>4</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>) to storable and transportable resources. Catalytic processes are the method of choice for this purpose, but it is difficult to drive chemical reactions with thermal activation energy only. The present project should investigate the control of chemical reactions to produce fuels and sustainable resources using innovative laser and nanotechnology. The project includes a junior research group leader position (f/m) and two research assistants (f/m).

### Desired qualifications:

- PhD in physics (group leader)
- Master of Science in Physics, Photonics or in an equivalent field (research assistant)
- Advanced knowledge in ultrafast optics and nonlinear physics
- Knowledge in molecular physics
- Knowledge in at least one common programming language (C++, Matlab, etc.)
- At least a basic knowledge in German is appreciated
- Ability to work independently as a researcher and effectively in a team

### We offer

- an exciting field of activity with creative leeway
- multidisciplinary research Environment
- attractive fringe benefits, e.g. Capital Assets, Job Ticket (benefits for public transport), occupational pensions (VBL)
- salary in accordance with the terms of the collective agreement for the public service of the Länder (TV-L) in accordance with personal qualifications
- university health promotion and a family-friendly working environment with flexible working hours

Selected candidates will receive a two-year position according to the German public service salary scale. Severely handicapped people are given preference in case of equal qualifications, aptitude and professional qualifications. Please send your application by email with the usual documents (CV, Letter of motivation, references, list of publications, etc.) mentioning the registration number 175/2019 until **12.07.2019** to

Prof. Dr. Stefan Nolte Friedrich-Schiller-Universität Jena, Institut für Angewandte Physik, Albert-Einstein-Str. 15, 07745 Jena

Email: [Stefan.Nolte@uni-jena.de](mailto:Stefan.Nolte@uni-jena.de)

Questions regarding the position can be addressed to the same address.

In the case of an application by letter we ask you to submit your documents only as copies, as those are properly destroyed after the application process. Please also note our application hints at: [www.uni-jena.de/stellenmarkt\\_hinweis.html](http://www.uni-jena.de/stellenmarkt_hinweis.html).