Job posting

Type of position
☒ scientific
☐ administrative

Target group
☒ graduates
☐ post docs
☐ other

Title
2 PhD Scholarships in Photonics

Institution
The Abbe School of Photonics (ASP) provides and coordinates the graduate studies in optics and photonics at the Friedrich Schiller University Jena / Germany, promoting their academic careers and providing job experience in the photonics industry. The School's interdisciplinary education programs are embedded within the framework of a cross-fertilizing research environment inherent to the Abbe Center of Photonics.

Position
Supported by the Graduate School Scholarship Program (GSSP) of the German Academic Exchange Service (DAAD), the Abbe School of Photonics of the Friedrich Schiller University Jena is offering 2 PhD Scholarships in Photonics starting in 2021.

Each GSSP PhD scholarship includes:
• a scholarship installment of currently 1.200 EUR per month,
• an annual travel allowance,
• payments towards health, accident and personal liability insurance cover,
• a preliminary German language course at the start of the scholarship,
• 36 months duration, possible extension for another 12 months.

Applicants can chose between the following projects:

GSSP PhD projects 2021
• No. 1 – LiNbO3-based nonlinear integrated optics for quantum applications, supervised by Prof. Uwe Zeitner and Dr. Fabian Steinlechner
• No. 2 – Ultimate limits of extraordinary optical transmission, supervised by Dr. Christin David and Prof. Silvana Botti
• No. 3 – Evaluation of pathogenic structures in cells and tissue using polarization-resolved fluorescence microscopy & machine learning, supervised by Prof. Rainer Heintzmann and Prof. Christian Eggeling
• No. 4 - Plasmon Enhanced Generation of Multiple Excitons in Semiconductor Heteronanostructures for Light-Driven Hydrogen Generation, supervised by Dr. Maria Wächtler and Prof. Benjamin Dietzek
Responsibilities
As a GSSP scholarship holder you are expected to perform scientific studies in your PhD project.

Requirements
Your qualifications:
• Master's degree in chemistry, physical chemistry or nanoscience
• background knowledge in spectroscopic characterization
• very good communication skills in written and spoken English

For detailed requirements please see the individual project descriptions

GSSP eligibility criteria
• GSSP PhD candidates must hold or be about to obtain a Master degree in Physics, Chemistry or a related field with sufficient exposure to photonics. The Master degree must be not older than 6 years.
• GSSP PhD candidates must be of non-German nationality and must not have resided in Germany for more than 15 months prior to the nomination.

Important note: Even if you do not fulfill one or several of these eligibility criteria, we strongly encourage you to apply! We are regularly offering a large pool of currently more than 10 PhD topics with different options to engage you – see www.acp.uni-jena.de/jobs.

Application procedure (deadline etc.)
Submission of applications
Please apply via the online application system of the Abbe School of Photonics (www.uni-jena.de/asp_online_application). The application deadline is January 3, 2021. The following documents will requested during the online application procedure:
• Transcripts of Records (ToRs) displaying the explicit marks of all completed courses within your Bachelor and Master studies. If available, a description with the explicit content of the courses will support your application.
• A comprehensive curriculum vitae (CV). Please list all stages of your education in chronological order. The CV must contain a clear statement about your current status and/or occupation including information on current employments, unemployment, or parental leave. Any prizes, scholarship,
extraordinary social, cultural or sportive activities may also be part of your CV.
• A copy of your passport.
• A proof of English knowledge certifying suitable proficiency of the English language to perform a PhD in photonics in an internationalized environment.
• A letter of motivation (1 to 2 pages in length and to be typed). It should describe your personal background, interests and reasons for applying to this scholarship. In there, please include a clear statement on your preference(s) of up to four of the below offered PhD projects and/or your preferred supervisor(s).
• The supply of further documents, such as e.g. two support letters from referees of the home university are recommended, but not mandatory at this preliminary stage.

Application procedure and further timeline
• January 3, 2021: Abbe School of Photonics application deadline
• 02/2021: pre-selection announcement of the Abbe School of Photonics
• 05/2021: official candidate nomination by the DAAD
• 08/2021: approximate start of DAAD German language course in Germany
• 10/2021: approximate start of the PhD research work at the Abbe School of Photonics in Jena, Germany

Contact
For more information, please check our websites www.asp.uni-jena.de and www.asp.uni-jena.de/GSSP. Any questions concerning the PhD projects should be directed to the respective supervisor. Technical questions concerning the application procedure should be directed to phd-asp@uni-jena.de.