

Contact:

Dr. Michael Mensing
Head of the Advanced Power Transistors Group
Business Unit Power Electronics
+49 4821 17-1416
michael.mensing@isit.fraunhofer.de

CALLING ALL EXPERTS IN POWER ELECTRONICS AND DEVICE PHYSICS!
AT FRAUNHOFER MAKE THE MOST OF YOUR TALENTS BY JOINING OUR
ADVANCED POWER TRANSISTORS TEAM. POSTS ARE IMMEDIATELY
AVAILABLE FOR:

Research Associate in Technology Development of Power Semiconductors

The Fraunhofer Institute for Silicon Technology ISIT is part of the Fraunhofer Society and works with approximately 150 employees at the Itzehoe site with industry and research on a national and international level in a leading position. The scientists develop power electronics components and silicon-based microsystems. The focus of the Power Electronics business area is on the development of innovative active and passive power semiconductor components based on silicon and gallium nitride. Their integration into power electronic systems also takes place as well as the development of battery and high performance storage systems.

Your tasks

- You will be responsible for the execution of research projects within our working group of Advanced Power Transistors.
- The focus will be on research into new technologies and device structures for power semiconductor devices based on gallium nitride as well as on the development and manufacture of innovative components based on gallium nitride and silicon.

What we expect from you

- A university degree (Master / Diploma / PhD) in physics, electrical engineering, or related disciplines with very good academic performance
- Proficient in semiconductor manufacturing technologies and processes.
- Experience in semiconductor process and device characterization, device design, and process/device simulation are advantageous.
- A high degree of initiative and motivation.
- Ability to quickly familiarize yourself with new problems and to take on responsibility as part of a team
- Fluent German and English, both written and spoken

What you can expect from us


We offer you a dynamic working atmosphere and an innovative working environment with versatile activities in the field of publicly funded and industry-related research and development. A varied range of topics with close contacts to industry and public clients awaits you. You have the space to work independently and with your own ideas, and you can actively help shape the future. We offer flexible working hours and support in balancing private and professional life.

If suitable, the opportunity for doctoral studies is given. Employment, compensation and social benefits are based on the collective agreement for the public service (TVöD). The position is initially limited to 2 years. The weekly working time is 39 hours.

Severely disabled persons will be given preference in the event of equal suitability. We would like to point out that the chosen job title also includes the third gender. The Fraunhofer Society attaches great importance to professional equality irrespective of gender. The position can also be filled on a part-time basis.

Fraunhofer is the largest organization for application-oriented research in Europe. Our research fields are based on the needs of people: Health, Safety, Communication, Mobility, Energy and Environment. We are creative, we shape technology, we design products, we improve processes, we explore new paths.

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?



YES.

We'll show you how at Fraunhofer.

Please apply online stating your salary expectations and earliest possible start date by 15.12.2021 at www.isit.fraunhofer.de or scan the QR Code on the left.

Reference: **ISIT-2021-36**