We are shaping the world with sensor solutions!

ams' success, being a world leader in the design and production of high performance analog ICs and sensor solutions is driven by our most important asset - our employees. To support our continuing growth, we are looking for people with ideas, people who want to make a difference and are focused on being the best.

**PhD Student (m/f)**

**Job No. 003042**

**Education/experience:**

- Finished master study preferably in Physics or Material Science

**Job description/tasks and responsibilities:**

- Establish a macroscopic model of the lateral oxidation of thin AlGaAs layers and implement it into a TCAD simulator for 2D/3D process simulation. This model shall be based on available experimental data and on literature.
- Simulate the mechanical stress in the vicinity of the oxidized layers and determine the resulting generation of crystal defects.
- Establish a model and simulate the generation of dislocations and their dynamics.
- Simulate the electrical carrier transport within the VCSEL.
- Present and publish scientific relevant results

**Workplace:** Premstätten, Styria, Austria

**Collective salary and wage agreement:**

We offer competitive salaries and additional benefits based on your performance, experience and qualification. The employment is in accordance with the collective salary and wage agreement for employees of the electrical and electronics industry, employment group G (including passage for young professionals).


ams offers a great work environment with exciting career paths and trainings, attractive salaries, a profit sharing program, social events and much more.

If you enjoy creativity and innovation, working in teams and an open and friendly corporate culture, we are looking forward to your application via our recruiting platform: [www.ams.com/eng/Join-Our-Team/Open-Positions](http://www.ams.com/eng/Join-Our-Team/Open-Positions).

www.ams.com