

The Fraunhofer Institute for Integrated Circuits has an immediate opening in the Moving Pictures Technology department in Erlangen for an

Intern or student assistant (f/m) for the development of algorithms in post-production

Interested in participating in the development of **post-production** image processing algorithms for professional **film and television production**?

Our Moving Picture Technologies Department conducts research and development into such algorithms, which are used in the post-production of film material, and integrates them into professional post-production tools. Post-production involves processing, editing and enhancing films with virtual effects. Light-field camera arrays open up a wide range of possibilities in post-production, such as creating virtual camera movement, a change in the depth of field or a shift in zoom referred to as a matrix effect. Creating these effects in cinema-quality requires processing the image material from the camera array with the use of algorithms. This work involves filtering, as well as the generation of disparity maps.

Additional information about light-field cameras in production and post-production, as well as a video about the origin of film is available at: <http://www.iis.fraunhofer.de/de/ff/bsy/tech/lichtfeld.html>.

Your responsibilities

You will implement and enhance post-production algorithms, as well as test and document the results of your work.

What we expect from you...

- Currently studying electronics engineering, computer science, information and communication or a related field
- Experience in at least one programming language such as C++, Java or Matlab
- Basic knowledge in the area of image processing
- Willingness to work **10-12 hours** a week as an intern or student assistant beginning in **March** for a period of at least three months.

What you can expect from us...

- An interesting application-oriented field of research with innovative projects and a state-of-the-art laboratory environment
- Extensive professional support from scientific mentors
- Flexible hours that allow you to balance your studies and on-the-job experience
- An open and friendly work environment
- Sufficient opportunity to develop your interests and skills

We can also offer you the opportunity to complete a **study or graduate thesis** in conjunction with our institute in one of the aforementioned fields. The thesis will be assigned and carried out in accordance with the rules of your university. For this reason, please discuss the thesis with a professor who can advise you over the course of the project.

If you have any questions about this opening, please contact Nina Holzer (nina.holzer@iis.fraunhofer.de / tel. 09131 / 776-5121)

Now it's your turn!

Send your detailed resume via e-mail to personalmarketing@iis.fraunhofer.de and reference ID number **325394**. And don't forget to tell us how you learned about this opportunity.

Additional information job openings can be found at: www.iis.fraunhofer.de