

Interested in helping to shape the world of tomorrow?

The Fraunhofer Institute for Integrated Circuits IIS, one of the 67 application-oriented institutes that make up the Fraunhofer-Gesellschaft research network, is focused on providing the technological foundation for a wide range of innovative products.

The Moving Picture Technologies department, located in Erlangen, has an immediate opening for an

## **Intern or Student Assistant (m/f)**

### **In the area Digital Cinema meets Virtual Reality**

Today, Digital Cinema has more or less replaced analog film reels in movie theaters throughout the world. At Fraunhofer IIS, we developed software solutions for creating and playing Digital Cinema Packages (DCPs). It is time to start thinking about the Digital Cinema of tomorrow. We want to evaluate how the usage of virtual reality glasses can enhance the immersive movie experience. To do that, our DCP player shall be extended to support rendering both 2D and 3D movies onto Virtual Reality glasses. Furthermore, we want to examine how the DCP format would have to be extended to accommodate for 360° spherical video.

#### **Your tasks**

- Familiarization with a VR SDK and the OpenGL-render module of the current software
- Specification and development of the required steps for the integration of a VR SDK
- Evaluation and documentation

#### **Your profile**

- Student in the field of Computer Science or a similar study
- Good knowledge of C++ and graphics-programming concepts
- Experience with OpenGL, incl. GLSL Shader, advantageous
- Experience with Qt-framework advantageous
- Flexibility and eagerness to work independently with new technologies

#### **What to expect from us**

- Diverse projects that are highly applicable to the real world
- An open and friendly work environment
- Sufficient opportunity to develop your interests and skills

#### **Have we piqued your interest?**

If so, we look forward to hearing from you. Send your complete application including CV and the available grade statement under reference code **484185**.

And please, don't forget to tell us how you heard about this opportunity.

If possible, please submit your application in PDF format via e-mail to:

**personalmarketing@iis.fraunhofer.de**

You can find additional information and career opportunities at: [www.iis.fraunhofer.de](http://www.iis.fraunhofer.de)