



MTT
Innovation
Incorporated



A
BARCO
Company

Imaging Research Scientist

About MTT Innovation

MTT Innovation Inc is an R&D branch of Barco, the world's leading provider of imaging solutions for cinema and professional applications. We are developing a novel form of projection that enables High Dynamic Range (HDR) on the big screen. We also serve as a skunkworks lab for Barco, pursuing new opportunities that make business and technology sense. MTT Innovation recently was announced as a winner of the 2018 Lumière Technology Award of the Advanced Imaging Society for our prototype light-steering cinema projector (<https://www.hollywoodreporter.com/behind-screen/dreamworks-animation-ibm-watson-ais-tech-award-winners-1140927>).

Who We Need

We are looking to add an Imaging Research Scientist to our agile and cohesive R&D team (currently about 15 people). Obtaining geometrically and colorimetrically accurate images in real-time with light-steering technology is challenging and computationally expensive. We are looking for someone to advance and improve our algorithms, as well as develop new ones. Core tasks include quantitative image measurement, analysis, simulations and modelling; selection and optimization of algorithms, literature search. Close cooperation with the optics team will be essential. Depending on your interests, the job could also encompass running demos of prototype hardware, giving talks, working with film industry professionals, quality assurance, standards compliance, and travel.

Our minimum requirements are:

1. PhD in physics, computer science, or related field.
2. Knowledge of optics and camera physics including spectrometer/spectroscopy measurements.
3. Comfort with mathematical techniques such as optimization of constrained PDEs and Fourier domain methods.

Other skills that will be useful but are not strictly required include knowledge of color science, statistics, machine learning, solid state lasers and LEDs, HDR experience, post-production or VFX experience, Matlab, Numpy/Scipy, CUDA and GPU programming, CAD, Zemax, electronics, workshop skills. Super important: that you have a can-do attitude and a collaborative team spirit.

To Apply

Send your resume, with cover letter, directly to Anders.