

## Senior Staff Engineer: Image Processing Research & Development

Location: **Vancouver**

State: **BC**

Job ID: **1455**

Duration: **Full Time**

<http://careers.dolby.com/detail.asp?jobid=dolby1455>

This position will investigate perceptual aspects of the human visual system. New techniques for appearance modeling will be developed, as well as improved methods of tone and gamut mapping across a wide range of video display technologies. Additionally, it will demonstrate their application to both consumer and professional markets by taking concepts to hardware/software prototype implementations. Work will be performed in a small collaborative team environment involving frequent interaction with other internal groups.

### Position Requirements:

- MSEE or equivalent.
- Minimum of 9 years of related industry experience.
- In depth knowledge of color science & color management systems.
- Knowledge of digital signal processing theory and practice.
- Knowledge of video processing algorithms and real-time implementation.
- Proficient in Matlab and/or C language programming.
- Excellent communication skills.
- A team oriented work ethic.
- Expertise in one or more of the following areas is highly desirable:
  - Understanding of advanced display technologies and related processing.
  - Track record of successful concept to prototype implementation.

### Essential Job Functions:

#### New Technology Development

- Conceive, develop and refine new concepts for product and licensed applications.
- Determine best approaches to solve technical problems to meet market requirements.
- Employ well designed and controlled experimental methodologies in all work.
- Assist others in productive application of experimental procedures.

#### Concept Implementation

- Define and establish technology requirements and performance goals.
- Create prototype hardware and/or software that is efficient, modular, bug free, understandable to others and well documented
- Assist in reviewing prototype designs.
- Conceive and develop proof of performance test and evaluation procedures and ensure requirements are met.
- Maintain software and/or firmware archives.

## Technical Leadership

- Maintain a productive and collaborative technical environment which fosters creativity and development of practical solutions to problems.
- Provide insightful and strategic technical direction to others.
- Maintain an up-to-date perspective and knowledge of competitive and complementary technologies.
- Assist product groups through applied research towards well defined goals.
- Assist management in setting technical goals for the company.

## Project Management

- May serve as project lead on critical Research projects.
- Assist in development of budgets and staffing requirements.
- Collaborate with peers to maximize project team productivity.

## Liaison

- Organize and/or deliver internal and external technology presentations and demonstrations as required.
- Effectively interact, support and work with other groups in the company, such as others in Research, Product Engineering, Marketing and Licensing to ensure efficient transfer of ideas.
- May represent the company's business interests on industry committees.

## Documentation and Patent Work

- Systematically prepare complete and accurate technical documentation.
- Maintain a lab notebook which thoroughly documents approach in Research experiments and results, suitable for patent support purposes.
- Work closely with patent liaison to provide complete and well written (precise) disclosure input for the generation of patent applications.
- Support patent attorney's efforts in response to office actions and in prosecution of patent applications as required.

## CONTACT:

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