The Duke Multi-Dimensional Image Post Processing Laboratory (Multi-D Lab) Visiting Fellowship offers practicing radiologists and associated health care professionals an informal learning experience in a university hospital environment. Visitors may spend from one day to several weeks in the Multi-D Lab. This fellowship is designed to enable practicing radiologists, technologists and administrators to acquire basic or additional exposure to CT/MRI image post processing. Learning opportunities will include both didactic instruction and active observation of Multi-D Lab activities. In addition, exposure to associated radiology activities is offered: observation of CT and MRI image acquisition, cardiovascular film/case reading sessions, lectures by Duke Faculty and departmental teaching conferences.

The Duke Multi-D Lab Visiting Fellowship offers an opportunity for visitors to learn best practices for planning, developing and managing a Multi-D/3D post processing imaging laboratory. Following this activity, participants should be able to:

- Recognize basic principles and techniques for CT/MRI image post processing.
- Describe the physical layout and network architecture of a Multi-D Lab
- Discuss methods for sending thin section CT images to the Multi-D Lab
- Understand Multi-D image workflow from scanning to reporting/billing
- Estimate Multi-D staffing needs and describe employee qualifications
- Implement a quality assurance program for image post processing
Visitors may choose a half-day of didactic instruction on the set up and management of a 3D/Multi-D Laboratory, followed by a half day of active observation of 3D/Multi-D activities. Alternatively, full days of active observation are offered. The participant may observe:

- CT/MR image acquisition including transfer of thin sections to the Multi-D Lab
- Multi-D Technologists' workflow from protocol selection through exam dictation/reporting
- Integration of 3D/Multi-D Imaging in radiology interpretation

**Didactic Curriculum:**

The 3D/Multi-D Management lectures include the following:

- Physical Laboratory layout and location
- Network architecture
- Thin section image transfer and storage
- Equipment needs
- Post processing workflow
- MD supervision requirements
- Multi•D imaging protocols
- Multi•D personnel job descriptions
- 3D exam billing compensation
- 3D report transcription
- 3D sql database design for productivity tracking
- Multi•D Technologist training and core competencies
- Multi•D Quality Assurance
- Integration of 3D imaging in Radiologist workflow

**Sample One-Day Multi•D Lab Curriculum/Agenda:**

9:00-9:30 Tour of Multi•D Laboratory facilities
9:30-11:00 Didactic review of Multi•D Laboratory Management
11:00-12:00 Integration of 3D/Multi-planar imaging in Interpretation
12:00-1:00 Noon break, lunch on own
1:00-4:00 Active observation/Q&A, Multi•D Lab operations
General Information

**Multi•D Visiting Fellowship Faculty:**

Daniel T. Boll, M.D.
Associate Professor
Medical Director,
Duke Multi•Dimensional Imaging Processing Laboratory

Laura Pierce, MPA, RT (CT)
Chief Technologist,
Duke Multi•Dimensional Imaging Processing Laboratory
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Lynne Hurwitz/Koweek, MD
Associate Professor
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**Program Coordinator:**

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919-681-0492
Multi•D Lab Visiting Fellowship Location:

Multi-dimensional Imaging Laboratory
Hock Plaza Building
2424 Erwin Road, suite 402
Durham, NC 27705
919-681-0492

Tuition:

Tuition for our visiting fellowship is $800 for a half day of didactic instruction. The group rate is $800 for the first person and $600 for each additional person. There is no charge for active observation.

Cancellation policy: There is a $100 administrative fee for cancellations less than one week prior to the visiting fellowship.

To Enroll:

Multi-D Visiting Fellowship is available on Tuesday, Wednesday and/or Thursday. Please email your choice of didactic instruction and/or active observation, along with your desired date(s) of attendance to Pamela Stanback pamela.stanback@dm.duke.edu or Laura Pierce lauraj.pierce@dm.duke.edu.

Once dates are confirmed, you will receive by email:

- Confirmation Letter
- Duke Confidentiality Agreement
- Multi-D Lab Visitor application for enrollment
- Visitor Observer Agreement
- Visitor Pre-Arrival Questionnaire
- Visitor Emergency Data Form

We look forward to your visit in the Duke Multi•D Lab. Should you have any additional questions please contact Pamela Stanback at 919-681-0492 or Laura Pierce at 919-668-5120.

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