



AGI

Abbie Gregg, Inc.

Duke University FCIEMAS

Project Name: Duke University, Fitzpatrick Center for Interdisciplinary Engineering, Medicine and Applied Sciences (FCIEMAS)

Project Location: Durham, NC

Architectural Firm of Record: Zimmer Gunsul Frasca Partnership

Project Size: 18,150 sq. ft. Cleanroom, 324,400 gross sq. ft. in Project

Construction Cost: \$80M

Professional Services Provided: 2000 – Present

Project Status: Cleanroom Completed 2007

Client Reference:

- Maria Antonis, Project Architect, ZGF, 202-380-3029
- Kristina Johnson, Former Dean, Pratt School of Engineering, Duke Univ., kristina.johnson@jhu.edu
- Dr. Nan Jokerst, Professor, Duke Univ., 919-660-5503

Project Features:

- Nanotechnology and Bio Cleanroom
- Class 100 and Class 1,000 Cleanrooms
- E-Beam Lithography
- Characterization and Prep Areas, including Advanced Imaging and Class 10,000 Spaces
- MBE Area, HPM and Class 100,000 Zone
- Facilities Support Areas, HPM Corridor and Storage Areas

Services Provided by AGI for Project:

- Cleanroom, Characterization and MBE Area Design: Programming thru Construction Documents, Construction Administration and Tool Install
- Layout, Utility Matrix, HPM Analysis
- Chemical and Gas Analysis
- Tool Research
- Vibration, Acoustics, and EMI Consulting and Abatement Recommendations
- Operational and Financial Model for the Center

Building Uses:

- Nanoscience Laboratories share a cleanroom and characterization and testing facilities with Duke's Trinity College of Arts and Science.
- Lab space is flexible and refined to fit specific research needs, including Photonics/Bio-photonics/Opto-Electronics and Quantum Optics; Communications/Signal Processing/Electronic and Light Transfer/Information Spaces; Biomedical Engineering (BME)/Bio-Engineering/Bio-Mechanics; and the Center for Biologically Inspired Materials and Materials Systems (CBIMMS).

Key AGI Personnel Associated with this Project:

- Abbie Gregg, AGI Project Executive
- Craig Rossrucker, AGI Project Manager
- Mark Winter PE, Chemical Engineer
- Lara York, Cleanroom Consultant, Bio Areas, EMI / Vibration



*Cleanroom Users
Aug 2007*



*Cleanroom
Aug 2007*



*Cleanroom Viewing Aisle
Aug 2007*



Chase View