ERC for Revolutionizing Metallic Biomaterials

Education Programs
- Nation’s first BS + MS Bioengineering @ an HBCU
- Trans-ERC courses (shared by NCAT, Pitt, UC)
- Trans-ERC seminars & workshops

BS & MS BMEN @ NCAT

Pre-Post Assessment of Content Knowledge (BMEN 741)

ERC/BMEN Educational Advisory Board

Trans-ERC-RMB Graduate Courses

Biology & Molecular Genetics

Biomedical Imaging

Mechanical Engineering

Materials Science & Engineering

Chemical Engineering

Electrical Engineering

Human Resources & Development

Outreach & Recruitment

Talent Development

Curricular Development

Student Engagement

Curricular Engagement

Teaching Center

Research Center

Human Resources

ERC Seminar Series Years 04-06:
Speaker/Topic Diversity

ERC Cross Campus Exchanges / Travel
- NCAT MS Bioengineering Students to PhD program at UC
- Student Faculty site visits (NCAT-FU-USC) for research interactions, equipment sharing
- Student-organized workshops/retreats rotating among the 3 campuses
- Student summer researchers at Hannover Medical School, Germany

Student Accomplishments

Intramural Awards

Conference Presentations

Research Publications

Summer Research Experiences

Pre-/Post Assessment of Content Knowledge (BMEN 741)

Content-Specific Questions

NCAT Pre-Assessment

UC Post-Assessment

ERC Seminar Series Years 04-06:
Speaker/Topic Diversity

ERC-RMB-wide Student Diversity

Workforce & Pipeline Development

Broadening Participation

Undergraduates: summer, academic year, veterans

" 47 total REUs (2 repeats)  * 11 states  * 19 Universities / Community Colleges

Pre-Post Participant By Race

ERC Seminar Series Years 04-06:
Speaker/Topic Diversity

Pre-Post Participant By Race

Young Scholars: summer

" 19 total YSs (2 repeats)  * 4 counties  * 12 high schools

Pre-Post Participant By Race

Strategic Recruiting

Other NSF Programs
- NC-LSAMP at NCAT
- Bridges to the Doctorate at NCAT
- Meyerhoff Program at UAB

Among other institutions
- NCAT students to Pitt PhD
- Recruiting from CSULA, EDCC, GTCC
- With UMBC sister institutions
- NIH SPIRE Post-doc visiting faculty from UNC-CH

With other ERCs at select conferences
- SACNAS, AISES

Campus & Community Outreach: year-round

Pre-/Post Assessment of Content Knowledge (BMEN 741)

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NCAT Post-Assessment

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