

1. Name.

Danny J. Bee

2. Administrative rank.

Associate Dean of Integrated Technologies, Western Technical College, 2012

Associate Dean for Sustainability, Western Technical College, 2010

Department Chair, Engineering & Technology Department, University of Wisconsin-Stout, 2008

3. Academic rank.

Assistant Professor, University of Wisconsin-Stout, 2018

Professor of Practice, Lecturer, University of Wisconsin-Stout, 2017

Assistant Professor, University of Wisconsin-Stout, 1995, tenured 2001

3. Degrees with fields, institutions, and dates.

Ed.S. Student, Career and Technical Education, University of Wisconsin-Stout

Ph.D. Student, Mechanical Engineering, Michigan Technological University

12 credits course work complete

16 credits doctoral research complete

M.S. in Manufacturing Systems Engineering, Engineering Management
Specialization, University of Wisconsin-Madison 1992

B.S. in Mechanical Engineering, University of Wisconsin-Madison 1988

4. Number of service years as instructional faculty.

17.0 years; August 1995, tenured August 2001; August 2017, University of Wisconsin-Stout

5. Number of service years as administration.

5.0 years, August 2010, Western Technical College

2.5 years, June 2008, University of Wisconsin-Stout

5. Other related experience: teaching, industrial, etc.

Advantek, Engineering and Quality Manager
Eau Claire, WI Aug 2015 – Jul 2017

Blackhawk Technical College, Continuing Education Division, Quality Specialist
Janesville, WI Oct 1994 – Aug 1995

International Business Machines (IBM), AS/400 Division, Process Engineer
Rochester, MN Jan 1992 – Oct 1994

University of Wisconsin-Madison, Mechanical Engineering Department, Head Teaching Assistant <i>Madison, WI</i>	Aug 1990 – Dec 1991
Procter & Gamble Paper Products Company, Process Engineer <i>Green Bay, WI</i>	Summer 1991
Boeing Company, Liaison (Design) Engineer <i>Wichita, KS</i>	Mar 1990 – Aug 1990
McDonnell Aircraft Company, McDonnell Douglas Corporation, Liaison (Design) Engineer <i>St. Louis, MO</i>	Jun 1988 – Mar 1990

6. Curriculum development and instruction, University of Wisconsin-Stout.

Fall 2019, Fall 2018, and Spring 2018 Instruction

ENGR-294, *Mechanics of Materials*, 3 credits, 1 section (Fall '19), 1 section (Fall '18), 2 sections (Spring '18), 4 hours lecture and 2 hours laboratory
 MFGE-405, *Capstone I: Concurrent Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ET-405 and ME-405, up to 70 students combined)
 MFGE-410, *Capstone II: Manufacturing Systems Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ME-410, up to 40 students combined)

Spring 2019 Instruction

SUST-315, *Sustainable Engineering*, 3 credits, 1 Section, 3 hours lecture
 MFGE-405, *Capstone I: Concurrent Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ET-405 and ME-405, up to 70 students combined)
 MFGE-410, *Capstone II: Manufacturing Systems Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ME-410, up to 40 students combined)

Fall 2017 Instruction

ENGR-294, *Mechanics of Materials*, 3 credits, 2 sections, 4 hours lecture and 2 hours laboratory
 MFGE-405, *Capstone I: Concurrent Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ET-405 and ME-405, up to 70 students combined)
 MFGE-410, *Capstone II: Manufacturing Systems Design*, 3 credits, 1 section, 4 hours lecture and project lab (co-facilitated with ME-410, up to 40 students combined)
 ETECH-100, *Impacts of Engineering*, 1 lab section

Summer 2017 Instruction

ENGR-275, *Thermodynamics and Heat Transfer*, 3 credits, 1 section, hybrid course of combined online and weekend face-to-face meetings in Green Bay, WI (for the MFGE Cohort at NTC)

Spring 2016 Instruction

SUST-425, *Sustainable Design and Development Capstone*, 3 credits, 1 section, 4 hours lecture and project lab

Spring 2010 Development

SUST-425, *Sustainable Design and Development Capstone*, for Fall 2010 offering

Spring 2010 Instruction

SUST-315*, *Sustainable Engineering*, 3 credits, 1 Section, 3 hours lecture

Fall 2009 Instruction

MFGE-440, *Manufacturing Systems Design and Simulation*, 3 credits, 1 section, 4 hours lecture and laboratory

Summer 2008 Instruction

MFGE-640, *Manufacturing Systems Design and Simulation*, 3 credits, 1 section, online distance course for M.S. in Manufacturing Engineering Program

Spring 2008 Instruction

SUST-730*, *Sustainable Futures*, 3 credits, 1 section, online distance course for M.S. in Manufacturing Engineering Program

MFGE-440, *Manufacturing Systems Design and Simulation*, 3 credits, 1 section, 4 hours lecture and laboratory

Fall 2007 Instruction

MFGE-351*, *Manufacturing Processes Engineering I*, 3 credits, 1 section, 4 hours lecture and laboratory

MFGE-440, *Manufacturing Systems Design and Simulation*, 3 credits, 1 section, 4 hours lecture and laboratory

Prior Course Instruction

MFGE-106*, *Impacts of Engineering Design*, 2 credits

MFGE-145*, *Introduction to Manufacturing Engineering*, 1 credit

MFGE-320*, *Material Removal Processes*, 3 credits

MFGE-359*, *Bulk & Sheet Metal Forming Processes*, 3 credits

MFGE-375*, *Joining and Fastening*, 1.5 of 3 credits

MFGT-102, *Materials and Processes 1*, 1 of 3 credits, lab portion

MFGT-110, *Materials and Manufacturing Processes*, 2 of 3 credits, lecture portion

MFGT-203*, *Machining and Metal Forming Processes*, 3 credits

MFGT-252*, *Material Removal and Forming Processes*, 3 credits, 2 section, 4 hours lecture and laboratory

* indicates new course development prior to first time offering

7. Curriculum development, career pathways, and instruction, Western Technical College.

Development

Building Systems Technology A.A.S. Program, first offering Fall 2012

Career Pathways

Numerous discipline areas within Industrial Technologies Division, including:

- Welding Technologies
- CNC Operations
- Manufacturing Systems Maintenance Technician
- Building Systems Technology
- Electronic Systems Installation & Maintenance
- Mechanical Design Technology
- Automotive Technician
- Diesel & Heavy Equipment Technician

Instruction

University of Wisconsin-Stout CTE-346/546* and 347/547*, *Sustainable Concepts Infusion*, Online Course for Western Faculty

* indicates new course development prior to first time offering

8. Principal publications.

Capturing Students for Manufacturing Engineering – Countering the Reverse Funnel Pipeline, Bee, D. and Rothaupt, R. *Proceedings of the 2008 ASEE Annual Conference*, Pittsburgh, PA, June 2008.

Ten Years of STEPS Success: Significant Impact In Attracting Girls to Science, Technology, and Engineering Careers, Bee, D., Puck, B., and Heimdahl, P., *Proceedings of the 2007 ASEE Annual Conference*, Honolulu, HI, June 2007.

Opportunities and Challenges for Manufacturing Engineering, Bee, D. and Meyer, B., *Proceedings of the 2007 ASEE Annual Conference*, Honolulu, HI, June 2007.

Developing Higher Order Problem Solving Skills Through Problem-Based Learning (PBL) in a Manufacturing Engineering Course, Bee, D., *Proceedings of the 2007 ASEE Annual Conference*, Honolulu, HI, June 2007.

Towards Sustainable “Product and Material Flow” Cycles: Identifying Barriers to Achieving Product Multi-Use and Zero Waste, Kumar, V., Bee, D., Shirodkar, P. Tumkor, S., Bettig, B., and Sutherland, J., *Proceedings of the 2005 ASME International Mechanical Engineering Congress and Exposition*, Orlando, FL, November 2005.

An Experiment on Sintering Characteristics of Coarse Nano-Scale Alumina for Manufacturing Students, Asthana, R., Bee, D., and Rothaupt, R., *Proceedings of the 2004 ASEE Annual Conference*, Salt Lake City, UT, June 2004.

Summer Technology & Engineering Preview at Stout (STEPS) for Girls, Bee, D., Puck, B., and Heimdahl, P., *Proceedings of the 2003 ASEE Annual Conference*, Nashville, TN, June 2003.

Inventory Management in Demanufacturing Facilities, Gunter, K., Bee, D., and Sutherland, J., *Proceedings of Colloquium on e-Ecological Manufacturing*, Berlin, Germany, March, 2003.

Back to the Future Manufacturing Engineering at Stout, Bee, D., *Proceedings of the 2001 ASEE Annual Conference*, Albuquerque, NM, June 2001.

9. University service, University of Wisconsin-Stout.

Department Chair, Engineering and Technology Department, 2008 to 2010

Program Director, M.S. in Manufacturing Engineering, 2007 to 2009

Coordinator, Sustainable Design and Development Minor, 2008 to 2009

Director, Sustainable Technology and Energy Center (STEC) Advisory Board, Stout Technology Transfer Institute, 2008 to 2010

Advisor for 25 graduate Manufacturing Engineering students

Advisor for 50+ undergraduate Manufacturing and Mechanical Engineering students

Technical Activities Coordinator and LEGO Professor, Advanced STEPS Summer Camp, 2005-2010

Personnel Committee, Engineering and Technology Department, 2007-2008

Program Director, B.S. in Manufacturing Engineering, 1999 to 2003

ABET Accreditation Coordinator, 1999 to 2007

Faculty Senator, 1998-2001

Faculty Senate Executive Committee, 2000-2001

Planning and Review Committee, 1998-2001 (Chair 2000-2001)

Numerous Search and Screen Committees (Engineering & Technology Department: Packaging, Manufacturing Technologies, Manufacturing Technician; Northwest Manufacturing Outreach Center: Center for Innovation and Development Director; University: Dean, College of Science, Technology, Engineering & Mathematics)

10. Honors and awards.

Named Taft Professor of Manufacturing Engineering, 1999 to 2002

11. Professional society memberships.

Society of Manufacturing Engineers 1995-present

American Society of Engineering Educators 1996-2011

12. Professional service.

Stout FIRST LEGO League (FLL) Regional Tournament Director, 2005-2009, 2019

UW-Stout Manufacturing Engineering Program Advisory Board Member, 2010 to 2017

ABET-EAC Manufacturing Program Evaluator, available 2004 to 2012

Director, Wisconsin FLL Planning Committee, 2006-2010

Steering Committee Member, SME Manufacturing Education and Research Technical Community, 2004-2014

Program Chair, 2007 ASEE North Midwest Section Conference, University of Wisconsin-Stout, Menomonie, WI, October 2006

Division Chair (2005-2006), Program Chair (2004-2005), Associate Program Chair (2003-2004) [administered peer reviewed manufacturing education papers for 2004 ASEE Annual Conference], Treasurer/Secretary (2002-2003), Webmaster (2001-2002), ASEE Manufacturing Division

13. Professional development activities.

Toyota Kata Workshops, January & February 2014

National Career Pathways Network (NCPN) Annual Conference, October 2013

Wisconsin Leadership Development Institute (WLDI), June 2012 through June 2013

SME TCN Leaders Meeting and SME Annual Conference, June 2013

National Coalition of Advanced Technology Centers (NCATC) Annual Conference, October 2012

Sustainability Education & Economic Development (SEED) Annual Conference & Workshop, American Association of Community Colleges (AACC), October 2012

Sustainability & Curriculum: Workshop for Campus Leaders, Association for the Advancement of Sustainability in Higher Education (AASHE), July 2011

Framework of Poverty Workshop, December 2010

ASEE Annual Conference, June 1997, 2001 through 2007

WESTEC, SME Tech Summit, SME TCN Leaders Meeting, and SME Annual Meeting, April 2006

SME Tech Summit and TCN Leaders Workshop, August 2005

ABET Annual Meeting and Conference, November 2003

Program Evaluator Training Workshop, ABET Engineering Accreditation Commission, June 2003

ABET Outcomes Based Assessment Workshop, ABET Engineering Accreditation Commission, June 2002

Best Assessment Symposium, Rose Hulman Institute of Technology, March 2001

Problem Based Learning Curriculum Development, Southern Illinois University PBL Initiative Workshop, January 1998

University of Wisconsin Faculty College, May 1997

Total Quality Learning Seminar, David Langford, Inc., June 1996

Manufacturing Engineering Program Accreditation & Curriculum, SME Workshop, September 1995

Software Continuous Improvement: Arena Simulation, July 2007, Solidworks CAD, June 2006, Promodel Simulation, January, 2002, AutoCAD, January, 2001, UGS IDEAS CAD, June 1999