

CEAS Graduate Programs & Research Newsletter

Running the Budget Numbers For Your 2002-2003 Proposals

By Dan Djuplin

As you prepare your proposal budgets, it is important to understand the wage requirements for student assistants. There are several different classifications of assistants, each having different stipend and fringe benefit rates.

Knowing these rates will ensure that your proposal will move through the university approval process faster. This is especially important when the deadline for your proposal is near.

Changes in Fringe Benefit Rates

The new fringe benefit rates in Table 1 are to be applied to all proposal budgets funded after June 30, 2002.

Table 1. 2002-2003 Fringe Benefits

Classification	New Rates
Faculty and Academic Staff	32.50%
Research and Project Assistants	15.00%
Research Associates and Grad Interns	22.00%
Student Hourly	2.00%

Benefits are to be applied, in addition to the assistant's stipends, for any student employed on external funds.

For further information on fringe benefit requirements and the rates for assistants with specialized classifications, please consult the Proposal Budgets page of the UWM Research Services & Administration Website at www.uwm.edu/Dept/RSA/develop/final/budget.html.

Classifications and Stipend Rates for Assistants

There are several categories of student assistants and it is important to understand them when deciding the stipend rates for your proposal budgets.

First, student help may either be classified as project (or program) assistants or research assistants. While project assistant is a more general term describing students that will help with your proposed project, research assistants are also fulfilling degree requirements.

see Budgets, page 3

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For more information about the
Center for Intelligent
Maintenance Systems
go to:

www.imscenter.net.

IMS Establishes Vital Partnership

By *Christina Grignon*

Last June, UWM's Center for Intelligent Maintenance Systems (IMS) established partnerships with the University of Michigan-Ann Arbor and Shanghai Jiao Tong University (SJTU). Representatives from each school, including UWM professor Dr. Jay Lee, met at the Industrial Innovation Center (IIC) convention in Shanghai on June 11, 2001. The result of the convention was a signing ceremony between UWM and SJTU establishing a partnership between the two colleges. The University of Michigan-Ann Arbor established a collaborative agreement with SJTU in 1999.

The mission of the IIC is to cultivate a new class of engineers and leaders with innovation and inspiration through collaborative

research and education programs among UWM, UM-Ann Arbor, and SJTU. UWM is proud to be affiliated with such founding members as Rockwell Automation, GM, United Technologies, Microsoft, Yaskawa, and Fujitsu. This is the first center of this kind with global companies involved.

UWM also signed an agreement with the Ministry of Science and Technology (MOST) in China. MOST has agreed to send two researchers, each for a one-year term, to the college of Engineering and Applied Science (CEAS). While studying at UWM, these researchers will work with IMS and CEAS.

These partnerships are crucial to the promotion of the IIC's initiative and the advancement of the UWM College of Engineering and Applied Science.

This photo was taken at the Shanghai Jiao Tong University Industrial Innovation Center. From right to left: Professor Jun Ni, UM-Ann Arbor and Co-director of the IMS Center; Professor Xie, NAE Fellow of Chinese Academy; Professor Lin, Dean of School of Mechanical Engineering at SJTU, and Professor Jay Lee, UW-Milwaukee and IMS Director.



Budgets:

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Other categories depend on whether the proposed project will need the student assistants annually (A-basis) or by the academic year (C-basis), and the percentage of time the student is employed. There may also be specific appointment requirements for specialized student classifications, such as dissertator status, which can be found in the manuals for assistants located on the UWM Web site at www.uwm.edu/Dept/Grad_Sch/Publications/.

The most common stipends for student assistants are given in Table 2. For further information on the

current rates you can find the full details in a printable PDF format at www.uwm.edu/Dept/RSA/develop/final/stipends2.PDF.

When budgeting for future years, it is recommended to increase stipends by an estimated 5% each year.

Budgeting Indirect Costs

Proposal budgets must also account for facilities and administrative (indirect) costs. The federally approved rates are 46% for research, 37% for instruction, and 30.7% for public services.

Budget Questions?

If you have any questions pertaining to stipends, fringe benefits, indirect costs or other budget concerns please contact Laura Ricci in the CEAS Proposal Development Office at 229-5716 or the staff at Research Services & Administration:
Neil McIntosh, 229-4913;
Chris Buth-Furness, 229-5667;
and
Karen Steldt, 229-6093.
The RS&A staff are on the Web at www.uwm.edu/Dept/RSA/index.html.

Table 2. Current Student Assistant Stipends

Assistant Classification and Year Budgeted	50% Appointments	33% Appointments
Research Assistants (Annual Year-A)	\$21,034	\$13,882
Research Assistants (Academic Year-C)	\$17,210	\$11,358
Non-doctoral Project Assistants (Annual Year-A)	\$10,375*	\$6,848*
Non-doctoral Project Assistants (Academic Year-C)	\$8,489*	\$5,603*
Doctoral Project Assistants (Annual Year-A)	\$11,239*	\$7,418*
Doctoral Project Assistants (Academic Year-C)	\$9,196*	\$6,070*

*Estimated stipends, pending contract agreement.

Engineering Management Launches

On Friday, February 1, the inaugural class of the Engineering Management Masters Program (EMMP) met for the first time. The students were welcomed to UWM and to the program by Dean V. Kanti Prasad of the School of Business Administration and by Dean William D. Gregory of the College of Engineering and Applied Science.

see Engineering Management Masters, Page 4



CEAS Graduate Applications Rise



As of March 26, 2002 UWM's CEAS received a total of 213 graduate applications for this summer and fall. This is a significant increase from previous years.

The applications are for both the Ph.D. level, with or without Master's degrees, and the Master's level. Table 3 shows a complete breakdown of these applications by department.

During the last week of February, CEAS participated in the

Harley-Davidson Education Fair. The two-day event took place at the company's Capitol Drive and Pilgrim Road facility. There were 13 inquiries regarding the college's engineering graduate education program. This was the greatest interest shown in the program since the event began in 1998.

In May, CEAS will participate in the Kimberly-Clark College Fair, as well as the Quad Graphics Education Fair later this spring.

Table 3. Number of Applications to the UWM CEAS Graduate Programs

	Ph.D. applications	Master's applications
Totals	81	132
Civil Engineering & Mechanics	6	13
Computer Science	3	*
Electrical and Computer Engineering	9	32
Industrial & Manufacturing Engineering	3	15
Materials Engineering	5	5
Mechanical Engineering	8	14
Undesignated	47	63

*CS Master's applicant data is handled exclusively by the CS department.

Notice to Ph.D. Students and Faculty Advisors:

When a Ph.D. student reaches Dissertator Status the credit maximum is 3. This is a system policy and there are no exceptions. Questions can be directed to the Graduate School or to the Graduate Programs & Research Office.

Betty Warras, 229-6169
Al Ghorbanpoor, 229-4962

Engineering Management Masters: from page 3

The new Engineering Management Masters Program (EMMP) is designed for engineers who are currently employed, and wishing to advance their careers in the area of technology management. A minimum of three years professional experience is required. Courses are taught by faculty from both the School of Business and the College of Engineering and Applied Science, with topics chosen to emphasize engineering management issues and the management of projects, people and resources.

The students meet biweekly on Friday afternoon and all day Saturday for 17 months before receiving a Master of Science in Engineering with an emphasis in Management. The cohort-based learning environment will put them into close contact with other high-potential engineers from a variety of organizations. The resulting exchange of ideas is expected to enhance the educational experience as well as form the basis of an ongoing collegial network.

Interested engineers can request an application packet on the web at www.emmp.uwm.edu, by sending an email to emmp@uwm.edu, or by calling Program Manager Marc Mayerhoff at (414) 229-3721.

Facts About EMMP Students

For more about EMMP see
Engineering Management Launches on page 3

Who are the Engineering Management Masters Program Students?

Age

Average	36.4 years old
Range	27-55 years old

Industry Experience

Average	13.3 years
Range	3-33 years

Time With Employer

Average	8.1 years
Range	0.75-17 years

Undergraduate Majors

Civil Engineering
Electrical Engineering
Industrial Engineering
Mechanical Engineering

Undergraduate Institutions

Grand Valley State University, Allendale, MI
Marquette University
Milwaukee School of Engineering
Purdue University
University of Wisconsin-Madison
University of Wisconsin-Milwaukee
University of Wisconsin-Platteville

Organizations Represented

Buell Motorcycle	East Troy, WI
De La Rue	Watertown, WI
GE Medical Systems	Waukesha, WI
Harley-Davidson*	Wauwatosa, WI
RMT, Inc.	Brookfield, WI
Rockwell Automation*	Milwaukee, WI
S&C Electric	East Troy, WI
Synergistic Micro Systems	Downers Grove, IL
Wisconsin Electric*	Milwaukee, WI

*more than one student

Why EMMP?

On the first day of the EMMP program, students were asked to write a few words about what they hoped to get out of the Engineering Management Masters Program. Here are some of their responses:

“Improve leadership and corporate skills.”

“Obtain knowledge and new insights to make me more valuable to my company.”

“Learn how to manage commercial aspects of technical issues.”

“Acquire tools to better manage programs.”

“Become a more well-rounded manager.”

“Learn skills that will help me grow in the engineering business environment.”

“Develop a better understanding of the business aspects associated with engineering.”

“Gain knowledge about the areas beyond core engineering activities and have this education background for future job possibilities.”

“Refine skills to accelerate career advancement opportunity and become an effective and successful leader.”

Table of Funded Proposals

01/01/02 - 03/27/02

Principal Investigator	Proposal	Agency	Amount
Ryoichi Amano	CFD Research	Advanced Remedial Technology/ John Deere	\$9,000
Edward Beimborn	Development of Improved Methods for Transit Service Market Analysis	DOT - Great Cities University Consortium	\$81,276
Edward Beimborn	Use of Benchmarking Techniques for Transit Service Comparisons	DOT - Great Cities University Consortium	\$114,893
John Boyland	Four A: Agent Adaptation and Assurance	Carnegie Mellon University	\$40,000
John Boyland	Analysis for High Dependability Computing	NASA/Carnegie Mellon University	\$50,000
Ivan Howitt	New Compression Techniques for Surveillance Video Compression	NSF/Jun Tech, Inc.	\$11,022
Gunol Kojasoy	Experimental Investigation of a New Damage Detection Method For Laminated Composites	USNRC/Purdue University	\$30,973
Jay Lee and William Gregory	Research Agreement	United Technologies	\$15,000
Ethan Munson	Multi-media, Agent languages, and Information Visualization For Data-Driven Information Processing	University of Maryland- Baltimore	\$19,779
Tarun Naik	Development and Demonstration of Porous Base Course Material	Illinois Clean Coal Institute	\$70,550
Tarun Naik	Use of Residual Solids from Pulp and Paper Mills for Enhancing Strength and Durability of Ready Mixed Concrete	Idaho DOE	\$65,000
Pradeep Rohatgi and Ryoichi Amano	Thermal Management of Reinforcements For Novel Microstructures and Interfaces In Cast Metal Matrix Composites	National Science Foundation	\$11,980
Umesh Saxena	Industrial Assessment Center	USDOE/Rutgers University	\$141,900

Creating a Master Resume

*Tired of creating a new document each time you need a resume, vitae or biographical sketch?
Make your life easier by creating a master resume.*

By *Christina Grignon*

Professor Pradeep K. Rohatgi of UWM's CEAS maintains a master resume. His document serves as a database for all of his biographical information, positions and appointments held, educational background, professional affiliations, and publications. This document would not be submitted in its complete form, but he can select the information needed, and easily copy it into a new document.

By creating a master resume you will save a great deal of time and undue stress. You will no longer need to create a new document from scratch each time you need a resume, curriculum vitae, professional profile, or other biographical sketch. From this master resume you select only the information that is necessary for the particular institution, company or organization to which you are submitting.

A master resume is a complete record of your professional career. By saving this document, sections from your master resume can then be copied and pasted into a new document. The result is a precise and appropriate resume or other biographical document produced in a short amount of time and with minimal effort.

The following guidelines help you get started, but you will need to modify some areas to reflect your specific needs and areas of expertise.

Start with your Name, Title and contact information.

Use headings to organize your resume information:

- Education
- Positions held (with dates!)
- Research projects
- Honors
- Awards
- Publications
- Memberships
- Research grants received
- Patents granted
- Community service
- Committee appointments
- Volunteer service

You may have to do a little digging through previous resumes and reflect on prior jobs and research projects to be certain that you have a complete collection of all of your information. Save this document on your computer as well as on a disk that you take home with you as a backup copy. The most important rule for the success of the master resume is to update the document frequently adding new information as it arises.

New faculty may update their resume data very often (every 6 months) while senior faculty may need to update just once a year. You'll find yourself remembering tidbits every time you review the document. One page length of data per year of your career is not too long! Remember, this is never sent as is, it is used as a database from which you select your best credentials for the opportunity at hand.

Important Dates:

The Qualifying Exam will be held in EMS W230 from 1-5:00 p.m.
Doors open at noon.

April 11 & 12

Dissertation defense deadline

April 29

Master's Thesis or Doctoral
Dissertation submission deadline to
both the Graduate School in MIT
261 and the Graduate Programs
and Research Office in EMS
E386A

May 6

Commencement

May 12

Notice to Graduate Faculty Advisors:

Please remind your graduate students to register for fall classes early to ensure classes remain available. Each semester, graduate students are disappointed when a class critical to their advancement and graduation is cancelled because it is under enrolled.

Advise students to register early, increase the number of available classes, and help reduce student frustration and dismay!

New Program, New Name As Graduate Internships Begin

The name of the Graduate Co-op Program has changed to the Graduate Internship Program. We have our first student working with Harley Davidson and our second student scheduled to start this summer with Briggs and Stratton in the area of Materials Engineering.

Brochures are in the process of being produced. If you would like copies to share with your industry contacts, please contact Joan Smothers in EMS 387, 229-2954, or email, joans@uwm.edu.

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