Carnegie Rankings and Library Support of Graduate Students

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Transforming Libraries for Graduate Students Conference
March 22, 2018
University of Wisconsin-Milwaukee

- Established in 1956
- One of 2 doctoral degree-granting institutions in the UW System
- 2nd largest institution
- 25,600 students
- 1,120 faculty
EDUCATION

UW-Milwaukee elevated to elite status as research university

UWM Report, Feb. 8, 2016

UWM Joins Powerhouse Research Institutions With New R1 Status

By RACHEL MORELLO • FEB 8, 2016

WUWM (88.9), Feb. 8, 2016

UWM receives top research rating from Carnegie

Milwaukee Journal Sentinel, Feb. 8, 2016
**INPUTS**

**People**
- Faculty & Scientists
- Research Staff
- Post-docs
- Graduate Students: RAs
- Undergrad. Students
- Collaborators

**Funding**
- Research & Public Service
  - External: Federal & Non-Federal
  - Internal: GPR & Indirects

**Resources**
- Facilities
- School/College support
- Internal Support Programs
- Partners
- Library
- UITS

**OUTCOMES**

**Scholarship**
- Publications, Creative Works & Performances
- Citations

**Students**
- PhD
- Thesis MS/MA
- Undergraduate Research

**Commercialization**
- Patents, Licenses
- Startups

**Community**
- Joint projects
- Partnerships

**CREATIVE STUFF!**

**UNIV. RESEARCH INFRASTRUCTURE**

OSP, Compliance, HR, Travel, Purchasing, Office of Undergraduate Research, UWM-Research Foundation, etc.
Carnegie Classification

- Leading framework for recognizing and describing institutional diversity in US higher education
- Originally published in 1973
- 2018 update recently announced!
3 categories of research activity: R1, R2, R3

Research activity correlates:
- R&D expenditures in STEM
- R&D expenditures in non-STEM fields
- STEM research staff
- STEM PhDs awarded
- Humanities PhDs awarded
- Social sciences PhDs awarded
- Other PhDs awarded
2015 Classification Data Sources

- IPEDS (for 2013-2014)
- NSF Survey of Research and Development Expenditures at Universities and Colleges (for FY14)
- NSF Survey of Graduate Students and Post-doctorates in Science and Engineering (for fall 2013)
Research Activity Metrics

- **Aggregated Research Index (ARI)** is based on institutional rank relative to the 276 doctoral granting institutions in the US.

- **Per Capita Research Index (PCRI)** uses expenditure and staffing measures divided by the number of full-time faculty.
Carnegie Classification Distribution

Note: The plotted points are based on the raw index scores. Standard deviation points are provided on each axis as reference points.
## 2015 UWM Rankings

<table>
<thead>
<tr>
<th>Carnegie Classification Data Points</th>
<th>Rank (Higher is Better)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM Research Expenditures</td>
<td>178 of 276</td>
</tr>
<tr>
<td>Non-STEM Research Expenditures</td>
<td>102 of 276</td>
</tr>
<tr>
<td>No. of Research Staff</td>
<td>123 of 276</td>
</tr>
<tr>
<td>PhD STEM</td>
<td>110 of 276</td>
</tr>
<tr>
<td>PhD Social Sciences</td>
<td>62 of 276</td>
</tr>
<tr>
<td>PhD Humanities</td>
<td>112 of 276</td>
</tr>
<tr>
<td>PhD Other</td>
<td>79 of 276</td>
</tr>
</tbody>
</table>
Analysis of UWM’s Jump

- Increases in research expenditures between FY09 and FY14, esp. in:
  - L&S (from $10.9 to $19.6M)
  - CEAS (from $4.6M to $6.5M)
  - Also driven by addition of two new schools, Public Health and Freshwater Sciences
- ~ 50% increase in number of PhDs awarded (from 125 to 187)
UWM Research Goals (for FY19)

- PhD awards: 200
- Post-docs: 100
- Research expenditures: $35 M
- Graduate student enrollment: 5,000
Strategic Investments

Series of planning exercises identified critical needs:

- Faculty hires
- Graduate student stipends
- Graduate programs
- Expansion of collaborative and interdisciplinary research
- Internal research support programs
  - Collaborative Work, Proposal Development
- Library and IT
- Shared facilities & equipment support
- Campus business processes
- Assessment and metrics
Role of the Library

- Support for Graduate Student enrollment, retention, graduation
- Campus tours
- Spaces
"Dissertation Boot Camp helps students make significant progress on their dissertations. With an intense focus on writing, the camp provides the structure and motivation to overcome typical roadblocks in the dissertation process. If you are struggling to find time and space to get going with your work, or just wish for a little more support as you do it, this program is for you."
Dissertation Boot Camp

- Post-boot camp, 1/3 of all survey respondents reported completing at least one chapter of the dissertation
- 8% reported completing a full first draft
- 100% agreed or strong agreed that the Boot Camp was an important experience
The Scriptorium

- Quiet space reserved for dissertators to do their writing
- Opened summer 2017
<table>
<thead>
<tr>
<th>Top Reasons for Using the Space</th>
<th>Top Reasons for Not Using It</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiet / low distraction environment</td>
<td>Didn’t know about it</td>
</tr>
<tr>
<td>Convenient location on campus, close to other resources</td>
<td>Have alternative work location</td>
</tr>
<tr>
<td>Secure, can leave behind their belongings as needed</td>
<td>Distance from home</td>
</tr>
<tr>
<td>Camaraderie with others working there</td>
<td>Lacks equipment necessary for their work</td>
</tr>
<tr>
<td></td>
<td>Lacks variety of furniture</td>
</tr>
<tr>
<td></td>
<td>Limited hours</td>
</tr>
<tr>
<td></td>
<td>Prefer to have some background noise or talk</td>
</tr>
</tbody>
</table>

**The Scriptorium**