UW System Ignite Grant Program

Information Session presented by:

WiSys

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Agenda

- Overview of UW System funded grant programs
  - Ignite Grant Program for Applied Research (formerly ARG/AR-WiTAG)
  - Ignite Grant Program for Prototype Development (formerly PDF)
- Campus Statistics - Submissions/Awards for Ignite-Applied Research
- Eligibility & New to this year
- Common questions and clarifications sought
- Submission Guidelines
- Review and Appraisal
  - Technical Reviewers
  - Primary Evaluation Checklists
  - Revise and Resubmit/Sequential Year Submissions
- What the review panel look for
  - Tips and common application problems
- Q&A followed by opportunity for discussion with your local RA and ORSP

UW System Ignite Grant Programs

- $600,000 in funding available annually

- Two Research Grant Programs offered by UW System:
  - Ignite – Applied Research
    - Competitive program open to all UW System institutions and academic disciplines
  - Ignite – Prototype Development
    - Non-Competitive program available to WiSys inventors from the Regional Comprehensives

Goal of Programs

"to develop advanced human potential and the knowledge economy that employs that potential… in particular to promote technology transfer and economic development throughout Wisconsin and provide for broader impact beyond the state"

Ignite – Applied Research, Eligibility Criteria

- Project should be well aligned with core purpose of the grant program

- The project should have potential for significant economic impact within Wisconsin and further afield:
  - Fostering business expansion and/or improving profitability
  - Helping to create jobs and/or enhance the work force
  - Reduce costs and/or increase efficiency and productivity
  - Improve quality of products or services
  - Create positive change in Wisconsin's cultural/natural environment

- Project plan is clearly defined, includes measurable milestones and articulates potential for economic impact

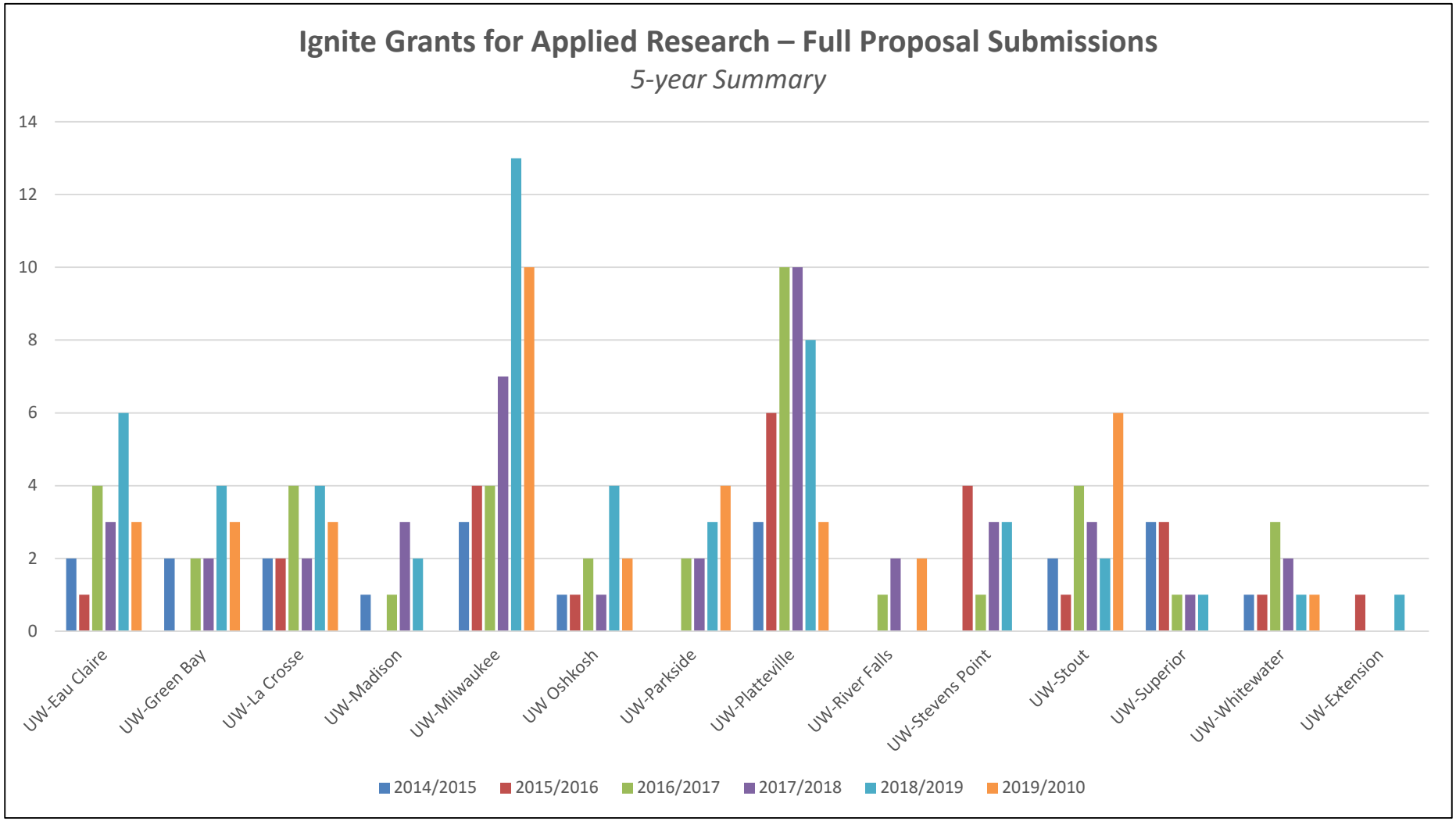
- Project is technically feasible and demonstrates creativity and/or innovation

Terms of Awards

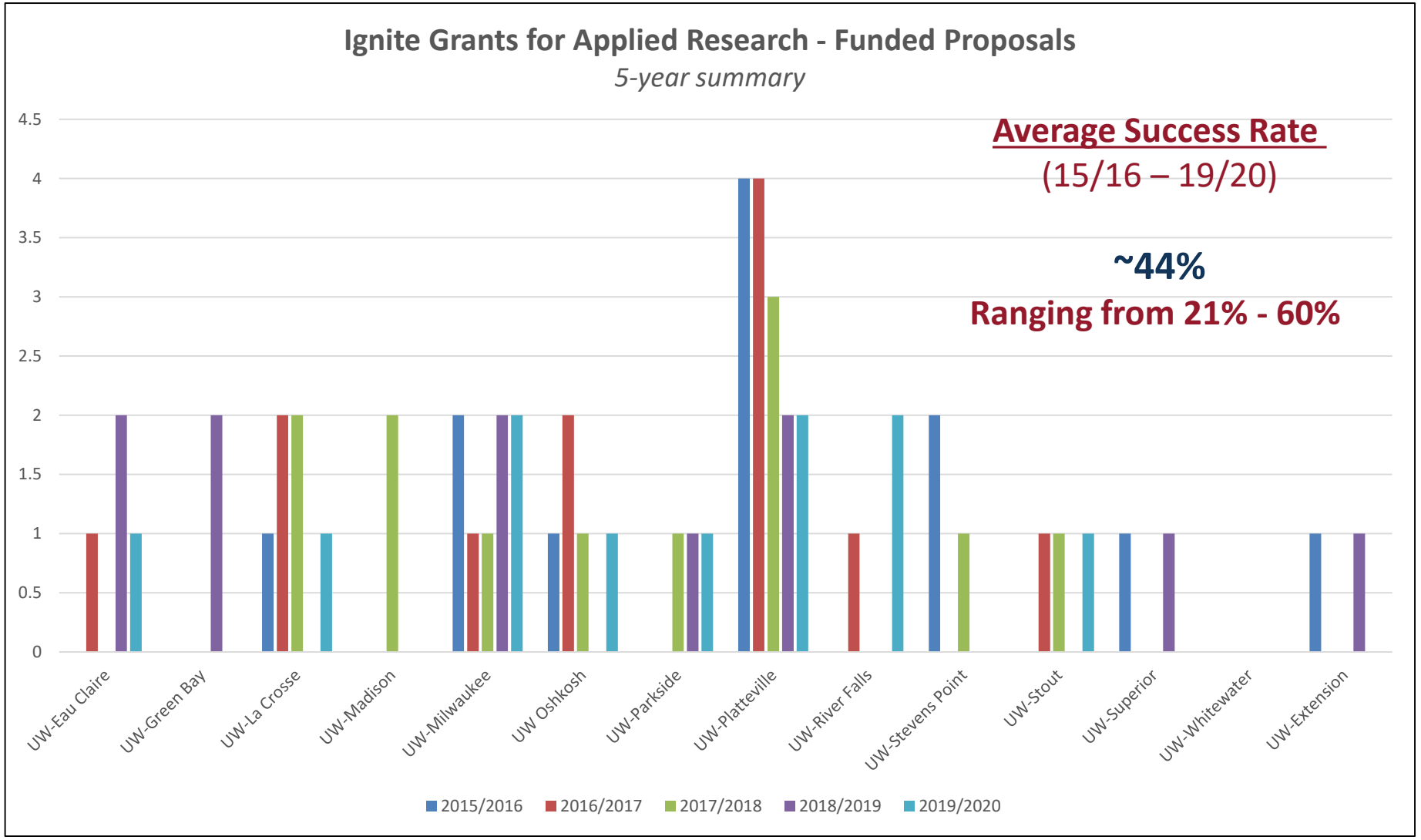
- **Ignite – Applied Research**
  - Up to $50,000 of funding is available per project proposal
  - UW-Madison and UW-Milwaukee are limited to two Ignite awards/funding cycle
  - **Funding term is for 14 consecutive months**, starting July 1, 2020
- **Ignite – Prototype Development**
  - Awards made at levels between $5,000 - $15,000
  - Short term funding (3-6 months) and applications accepted year round
  - Applications for any given fiscal year must be submitted by March 1 for consideration
  - For more information contact grants@wisys.org

Campus Statistics (15/16 – 19/20)

Ignite – Applied Research, Full Proposal Submissions



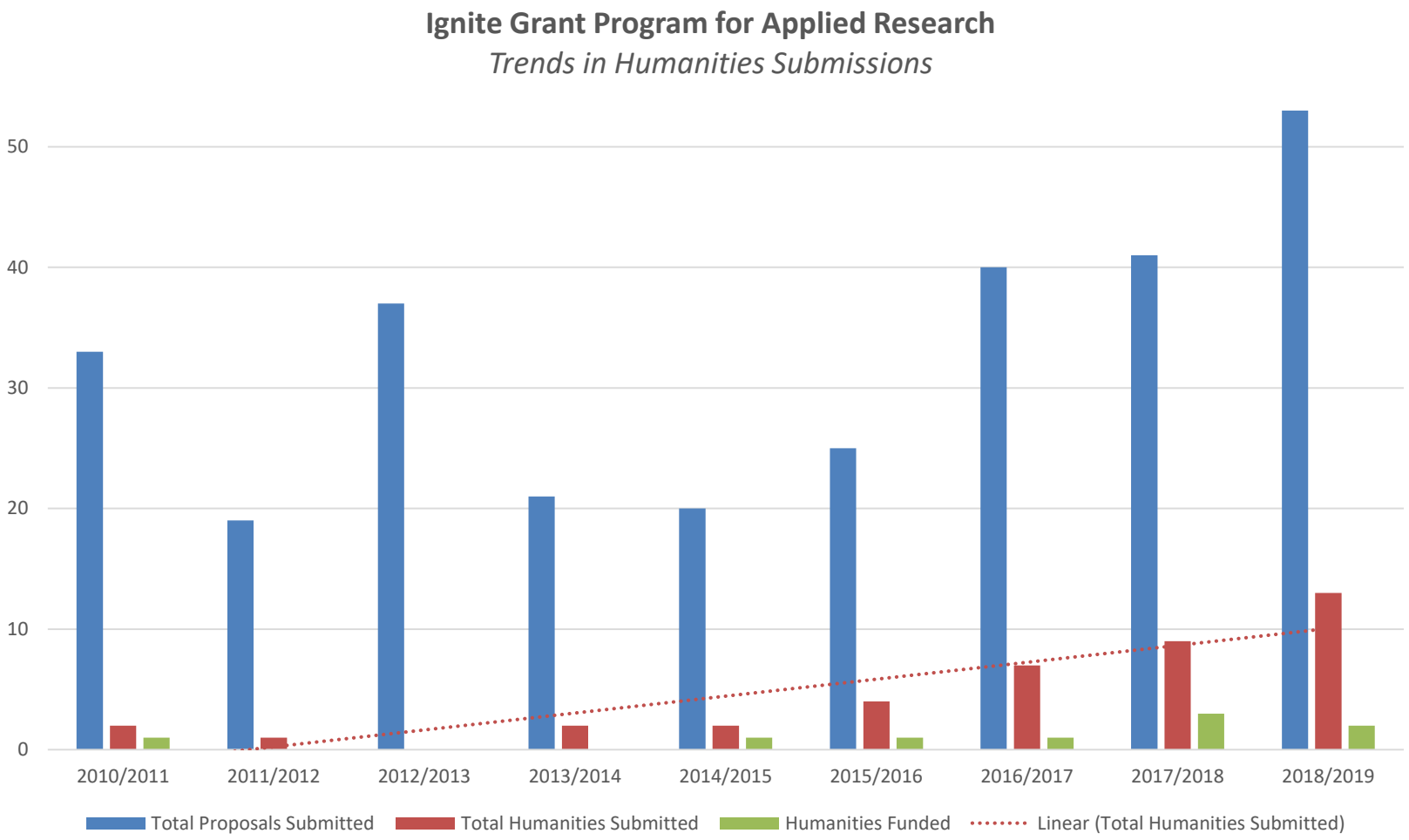
Ignite – Applied Research, Funded Proposals



2019/2020 Awardees

Campus	Title	PI
UW-Eau Claire	Efficient Low-Cost Solar Water Heater Panel	K. Pierson
UW-La Crosse	Electro-synthesis of Platform Chemicals via Catalytic Coupling of Carbon Dioxide and Alkenes	S. Sen
UW-Milwaukee	Development of Tailored Adsorbents for the Removal of Per- and Polyfluoroalkyl Substances	Y. Wang
UW-Milwaukee	Developing a New Two-Line Male Sterility System for Sorghum Hybrid Breeding	D. Zhao
UW Oshkosh	Olfactory-Based Pest Control of the Colorado Potato Beetle	R. Mitchell
UW-Parkside	Nanofabrication of YBa2Cu3O7 (YBCO) based Superconductor (S)-Insulator (I)-Superconductor (S) Tunneling Sandwich-type Josephson Junction	H. Kandel
UW-Platteville	Towards the Commercialization of PLA/organosolv Lignin Filament for 3D Printing	J. Obielodan
UW-Platteville	Development of Natural and Safe Pesticides as Novel Alternatives for Sustainable Plant Disease Management	M. Venkateshwaran
UW-River Falls	Producing Polymer-Quantum Dot Composite Materials through Direct Ligand Reaction	S. Alvarado
UW-River Falls	Emmacin Related Dihydropyrimidine Analogs as Dihydrofolate Reductase Inhibitors with Narrow and Broad-spectrum Antibiotic Activity	M. O'Reilly
UW-Stout	DAGIStRII: Decrease the Achievement Gap and Increase STudent Retention through Intercultural Innovation	E. Marshall

Social Sciences and Humanities Proposals



Social Sciences and Humanities Examples

Developing Assessment Measures for Women's Building Construction Trades Pre-Apprenticeship Andragogy

- Goals: investigate best practices to support women's entry and success into building construction trades
  - Addressing: recruitment, training and retention

- Objectives:
  - Increase awareness of building trades as a feasible career path for women;
  - Establish a pre-apprenticeship program; and
  - Evaluate program effectiveness

- Impact: workforce development
  - Support for the construction industry in filling open positions
  - Development of tool that could be used outside of WI and for other trades

Social Sciences and Humanities Examples

Scientifically Authentic Video-Based Experiments (SAVE)

- Goals: to create and distribute web-based activities to help high school and university students learn science
  - Utilizing: high resolution, interactive videos of real events that are linked to scientific theory in subjects such as physics

- Objectives:
  - Create 100 new interactive videos;
  - Conform videos to industry standards; and
  - Develop user interface.

- Impact: improve the efficiency of science education in Wisconsin
  - Better prepared students – employability and workforce development

Nothing new, but continued emphasis on…

- Continued emphasis on the ‘why, what and how’

- Further guidance for ‘Research Plan Section’
  - Quantitative goals and steps to achieve such
  - Tangible milestones to be achieved towards goals identified; and
  - Timeline to achieve milestones/goals

- Continued increased attention paid to market opportunity and competitive positioning as well as preliminary findings and innovation around technical approach

Structured Template

- Section 1 - Executive Summary
- Section 2 - Rationale, Technical Approach, and Preliminary Data
- Section 3 - Research Plan (maximum of 3 objectives)
  - Detail objective, corresponding quantitative goals, and methodology to be carried out to achieve objective
- Sections 4/5 - Market Opportunity and Commercialization
  - Target market, end user, impact on WI and beyond
  - Commercialization/dissemination plan (how will it reach the marketplace or end user)
- Competition
  - What else is already out there and why is your approach better (Companies, competing technologies/products etc.)

Structured Template

- **Section 6 - Intellectual Property**
  - Has IP been pursued? If so, provide details. If not, what are plans if applicable?
  - Are there any agreements which may impact existing or future IP protection?
  - Are any rights already assigned to a company and/or other institution?
- **Section 7 - Project Team/Key Personnel**
- **Section 8 - Funding History**
- **Section 9 - Budget Justification**
- **Section 10 - Any other Relevant Information**
- **Section 11/12 - Scientific References and Supporting Information**

Proposal Appendix

- **Proposal Appendix Format**
  - **Detailed instructions provided on content to be included:**
    - **Primary investigators CV(required)**
    - **Letters of support (if applicable)**

    Letters from partners/collaborators demonstrating market need, customer interest, and soundness of technical approach are highly encouraged

Common questions/clarifications sought

- **Budget**
  - Disallowable expenses/justifications required
- **Fringe Benefits**
- **Multi-institution proposals**

Budget – Disallowable Expenses/Justifications

- **Travel**
  - Travel to conferences is NOT allowed
  - Funds may only be used for collaboration and must be justified
- **Computer Hardware**
  - Funds for computer workstations and laptops are generally disallowed – unless critical to project and highly justified
- **High Value Capital Equipment Requests**
  - Equipment requests >$5,000/piece of equipment must be highly justified
  - Applicants should try and access use of existing equipment on campus or throughout UW System
- **Publication Costs**

Fringe Benefits

- Fringe benefits are provided for UW System employees
- If awarded, Fringe Benefits will be covered by the GPR Fringe Benefit Pool and will be automatically transferred by UW System directly
- Funds for Fringe Benefits should NOT be included in the salary requested column or included in the $50k budget

Multi-Institution Applications

- Collaborative and interdisciplinary proposals are encouraged
- The lead institution should submit the following:
  - Signed Cover Page
  - Budget Pages
  - Full proposal using structured template
  - Proposal Appendix
- Supporting institution should submit the following:
  - Signed Cover Page for their institution only
  - Budget Page detailing funds for their institution only
  - CV/Resume for Key Personnel
- Lead Institutions should identify collaborative proposals and supporting institution during submission process

Submission Guidelines

- **Intent to Submit required for full proposal submission**
  - Intents are submitted electronically at:
    - https://www.wisconsin.edu/grants-awards/ignite-grant-program/ignite-grant-program-intent-to-submit-form/
    - Should summarize goals of project in less than 500 words
  - Feedback only provided (by 12/20/2019) if applicant requests during intent to submit submission
  - ORSP representatives will be notified of all campus intents to submit by 12/4

- **Full proposal submissions**
  - Applicants should submit the following by email to grants@wisys.org and should copy their grant administrator:
    - Signed Cover Page (PDF)
    - Completed Structure Template for Proposal Narrative (Word Document)*
    - Budget Page (Excel Sheet)
    - Proposal Appendix (submitted as one combined PDF)

  * *Structured Template must be used and Applicants should NOT exceed page or word counts or modify formatting. Single spacing and font size 12 should be used.*

Review and Appraisal

- All Ignite proposals are reviewed by an external review panel
  - Business and technical/content experts from varied disciplines:
    - Sustainable technology
    - Computer Science
    - Biotechnology
    - Engineering and Materials Science
    - Humanities and Social Sciences
  - UW System representative from Office of Academic Programs and Educational Innovation
  - WiSys
- Committee members are chosen each year based on technical areas of Intents to Submit received

Technical Reviewers

- First piloted during 18/19 call
- Peer-reviewed component to supplement review panel packets with technical insight
- Technical reviewers solicited from across UW System
  - Reviewers matched to proposals by WiSys
- CDAs executed with all technical reviewers
- Standard template implemented
  - Technical strengths/weaknesses of application
  - Project feasibility and design
- Aimed for 2 technical reviewers/proposal
- Plan to continue program for 20/21

Primary Evaluation Checklist –
Science & Technology proposals

- **Economic**
  - Near term (1-3 years) versus long term impact and strategy for achieving long-term
  - Creation of new technology or industry
  - Impact on quality of life or environment
- **Technological Innovation in Science**
  - Level of innovation
  - Competitive differentiation to existing approaches/technologies
  - Feasibility
  - Commercially attractive market
  - Potential for intellectual property
- **Overall Quality of Proposal**
  - Achievable and measurable milestones
  - Well-designed and articulated project plan
  - Cost effective
  - High probability for extramural follow on funding
  - Opportunity for student training

Primary Evaluation Checklist –
Social Sciences and Humanities proposals

- **Economic/Societal Impact**
  - Positive change in WI cultural and/or natural environment
  - Creation of tangible economic benefit
    - Create jobs/enhance workforce
    - Reduce costs/increase efficiency/productivity and/or improve sustainability
    - Promote competitiveness in business
- **Likelihood of Successful Project Completion**
  - Feasibility and realistic objectives
  - Meaningful outcomes in the grant period
  - Support from the private sector or other partners
  - Sustainability of program and potential for extramural funding
- **Overall Quality of Proposal**
  - Achievable and measurable milestones
  - Well-designed and articulated project plan
  - Cost effective
  - Opportunity for student training

Revise/Resubmit & Sequential Year Submissions

- Applicants are encouraged to revise and resubmit
  - Ensure resubmission:
    - Addresses as much of reviewers feedback as possible
    - Includes any preliminary data generated since prior submission
- Sequential year submissions are accepted however few are funded. Applicants should:
  - Highlight what was accomplished during year 1, demonstrating successful completion of milestones that year 2 funding will build upon;
  - Demonstrate that other funding sources have been considered.
- Applications where multiyear funding is proposed are not encouraged
  - Rather, detail what can be accomplished within 12 month period and what follow on funding is possible as a result of data generated

What the review panel look for…

- A well written proposal that tells a nice story in the executive summary
- Proposals with preliminary data are stronger
- Evidence of industry partnerships/interest a plus
- Demonstrate that proposals approach is different than taken by others (e.g. use of innovative methodology)
- Potential for IP
- Likelihood of economic impact to state should be high
- Clarify IP situation and any industry involvement
- Demonstrate how research will address a commercially attractive market
- Better define key features of innovation and how it may one day reach marketplace
- If early stage with a long development– map out long term potential and plans to realize it

Important Dates

- Intent to Submit Deadline – December 2, 2019
- Full Proposal Deadline – January 27, 2020
  - In order to submit a full proposal, applicants must have submitted an intent to submit
- Award Announcements – on or before May 1, 2020
- Confirmation of State Funds – on or before July 1, 2020
- Expenditures must be made by – August 31, 2021
- Final Reports due – September 30, 2021

WiSys Spark Grant Program

- Opportunity for funding to generate preliminary data to support future Ignite applications and/or other funding programs
  - Supporting projects with IP and commercial potential
  - Requires submission of Invention Disclosure to WiSys
- Up to $10,000/per project proposal, 6-9 month term
- Competitive process administered at the campus level
- Participating campuses with Fall and Spring deadlines:
  - UW-La Crosse (November 1, 2019)
  - UW-Stout (November 1, 2019)
  - UW Oshkosh (February 5)
  - UW-Eau Claire (April 2020)
  - UW-Whitewater (Spring 2020)
- Contact your Regional Associate or ORSP to learn more.

QUESTIONS?

For more information contact grants@wisys.org

Or visit our website at www.wisys.org