



Oklahoma Center for the Advancement of Science and Technology

OCAST Programs and Award Process

Oklahoma EPSCoR NSF Grants Workshop

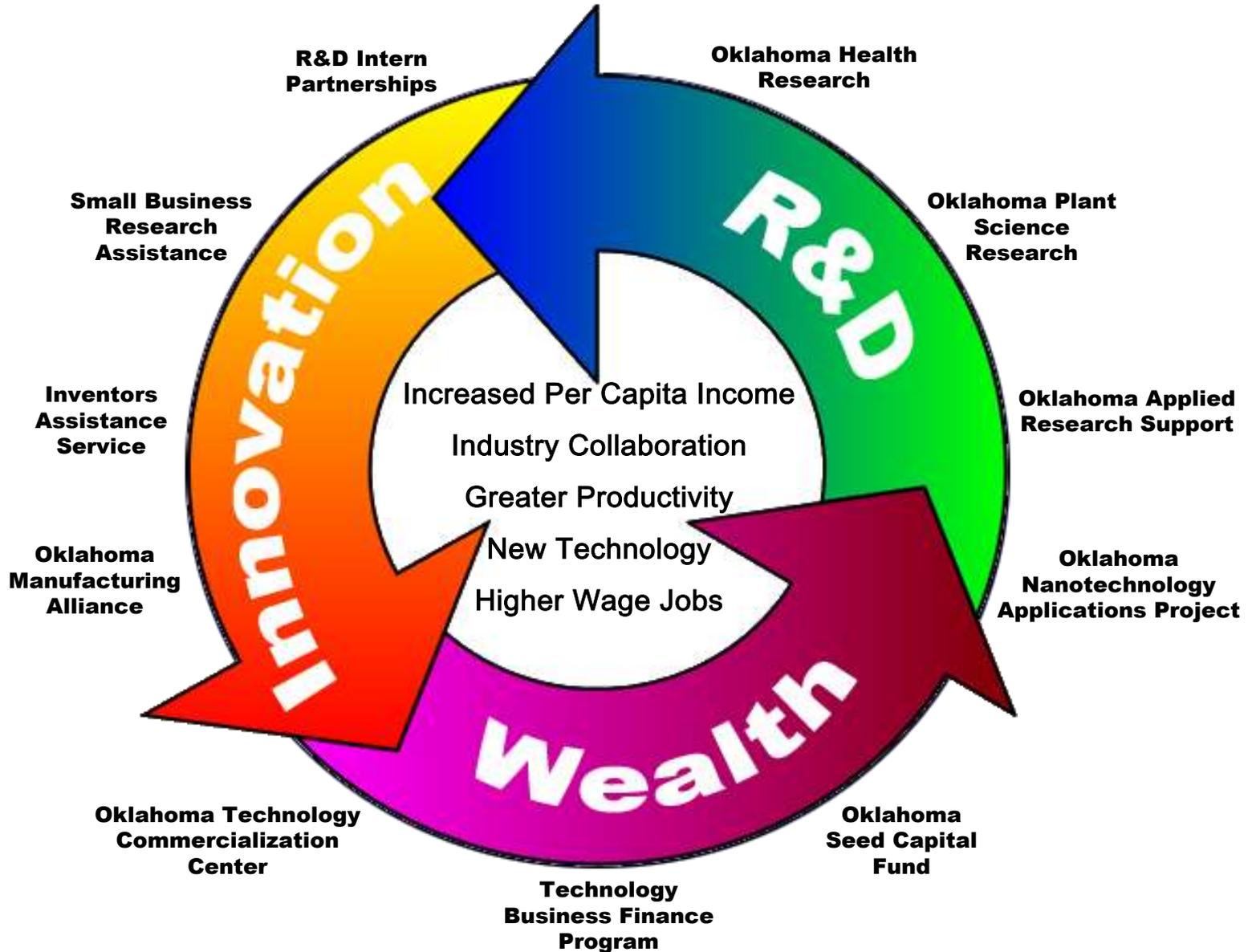
April 20, 2011

OCAST



Since 1987, the state's agency and engine for technology development, transfer and commercialization

OCAST Programs



R&D Programs

Advisory Committees

- All OCAST R&D programs are supported by an advisory committee
- Advisory committees are composed of representatives from academia and the private sector and are approved by the OSTRaD Board of Directors
- Health Research Advisory Committee members are appointed by the Governor

R&D Programs

- **Health Research (ROI 5:1)**

- Earlier stage bioscience research/support to encourage new researchers in the state
 - Health Research awards provide up to \$45,000/yr for up to three years

R&D Programs

- **Plant Science (ROI 10:1)**

- Basic, proof-of-concept and accelerated research related to plant science

- Basic awards provide up to \$50,000/yr for up to two years
 - Proof-of-concept awards provide up to \$50,000/yr for up to two years and requires a dollar-for-dollar match
 - Accelerated awards provide up to \$100,000/yr for up to two years and requires a dollar-for-dollar match

R&D Programs

- **Applied Research Support (ROI 21:1)**
 - Proof-of-concept and accelerated (no specific topics)
 - Proof-of-concept awards provide up to \$45,000/yr for up to two years and requires a dollar-for-dollar match
 - Accelerated awards provide up to \$300,000 for up to three years and requires a dollar-for-dollar match

R&D Programs

- **Small Business Research Support (ROI 51:1)**
 - Helps Oklahoma companies pursue federal SBIR/STTR funding more successfully by providing technical and financial support
 - Provides up to \$3,000 for development of an SBIR Phase I proposal and up to \$5,000 for development of an STTR Phase I proposal
 - Provides up to \$25,000 to help bridge the gap between Phase I and Phase II projects

R&D Programs

- **Nanotechnology Applications Project (ROI 10:1)**
 - Innovative use of new or existing nanotechnology
 - Provides up to \$500,000/yr for up to three years and requires a dollar-for-dollar match
 - Academia can only participate in the program if working in collaboration with industry

R&D Programs

- **R&D Intern Partnerships**

- Undergraduate student and faculty internships

- Provides awards of up to \$30,000/yr for up to two years (up to \$50K in 2011)
- Requires participation in Research Day

Commercialization Programs

Managed for OCAST by 12E, Inc.

- **Technology Commercialization Center**
 - Technical support to assist entrepreneurs and early-stage technology companies seeking to commercialize innovation
- **Technology Business Finance (ROI 43:1)**
 - Limited pre-seed financing
- **Oklahoma Seed Capital Fund (ROI 2:1)**
 - Investment in early stage companies

Manufacturing Support

Managed for OCAST by The Oklahoma Alliance for Manufacturing Excellence

- **Oklahoma Manufacturing Alliance**
(ROI 129:1)

- Offers technical assistance and business advice to help manufacturers become progressively more successful

Inventors Assistance

Managed for OCAST by the New Product Development Center at OSU

- **Oklahoma Inventors Assistance Service**
 - Helps Oklahoma inventors navigate the invention process from idea to the marketplace

OCAST's Strategic Partners

- Oklahoma Manufacturing Alliance
- i2E
- Oklahoma Dept. of Career and Technical Education
- Oklahoma Higher Education
- Oklahoma Department of Commerce
- Oak Ridge National Lab
- Oklahoma City Air Logistics Center

The OCAST Model

- **Highly Competitive** – ensures the best investment of state money
- **Outside Peer Review** – ensures the science is sound and the project has market potential
- **Catalyst for Collaboration** – the correct resources and capabilities to move technology to market and sustain and grow the business
- **Advisory Committees** – from business and research institutions to keep existing programs on target and to suggest improvements when needed

A Winning Application

Good Science

- Experienced research team
- Facilities and equipment
- Strong research plan

Good Business

- Business support
- Market knowledge
- Commercialization strategy

Most Common Problems

- Too much work for the requested budget
- Lack of Experience (apparent)
- Incomplete research plan (apparent)
- Insufficient commercialization plan (accelerated projects)
- Too much information

OCAST Programs Solicitation process

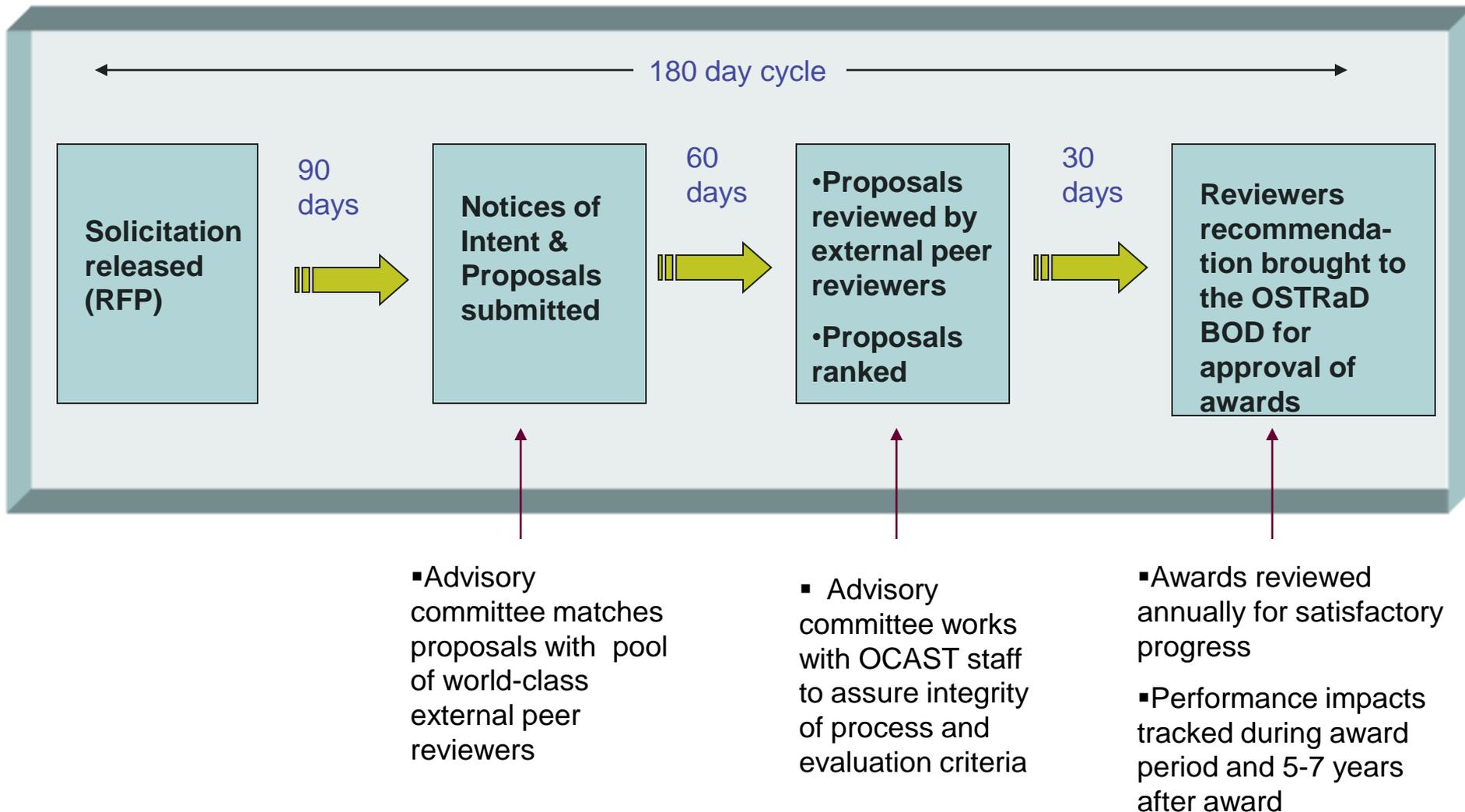
Statutes → Rules → Specifications → Solicitation

- OSTRaD BOD approves
- Public hearing
- Legislature approves
- Governor approves

- Advisory committees review and offer recommendations
- OSTRaD BOD approves
- Any changes in specifications require OSTRaD BOD approval

- Based on statutes, rules and specifications, staff prepare and release to the public with approval of the advisory committee
- Includes evaluation criteria

OCAST external peer review and award process



The Contract Process

- Post award notifications – Kick-off meetings
- Establishing the Contract
 - Contract type
 - Internal contract review
- Progress reports
- Requests for payment (RFP)
- Revolving funds

Contract Compliance Audits

- It is OCAST policy to perform audits of contracts executed by the agency for all funding programs.
- Audits are conducted following the federal guidelines of generally accepted *Government Auditing Standards*.

Additional OCAST Support

- Workshops
- Sponsorship of the Donald W. Reynolds Governor's Cup Business Plan competition
- Internship Matchmaking Database
- Service Providers Database
- Industry/Researcher Matchmaking Database

Success Stories

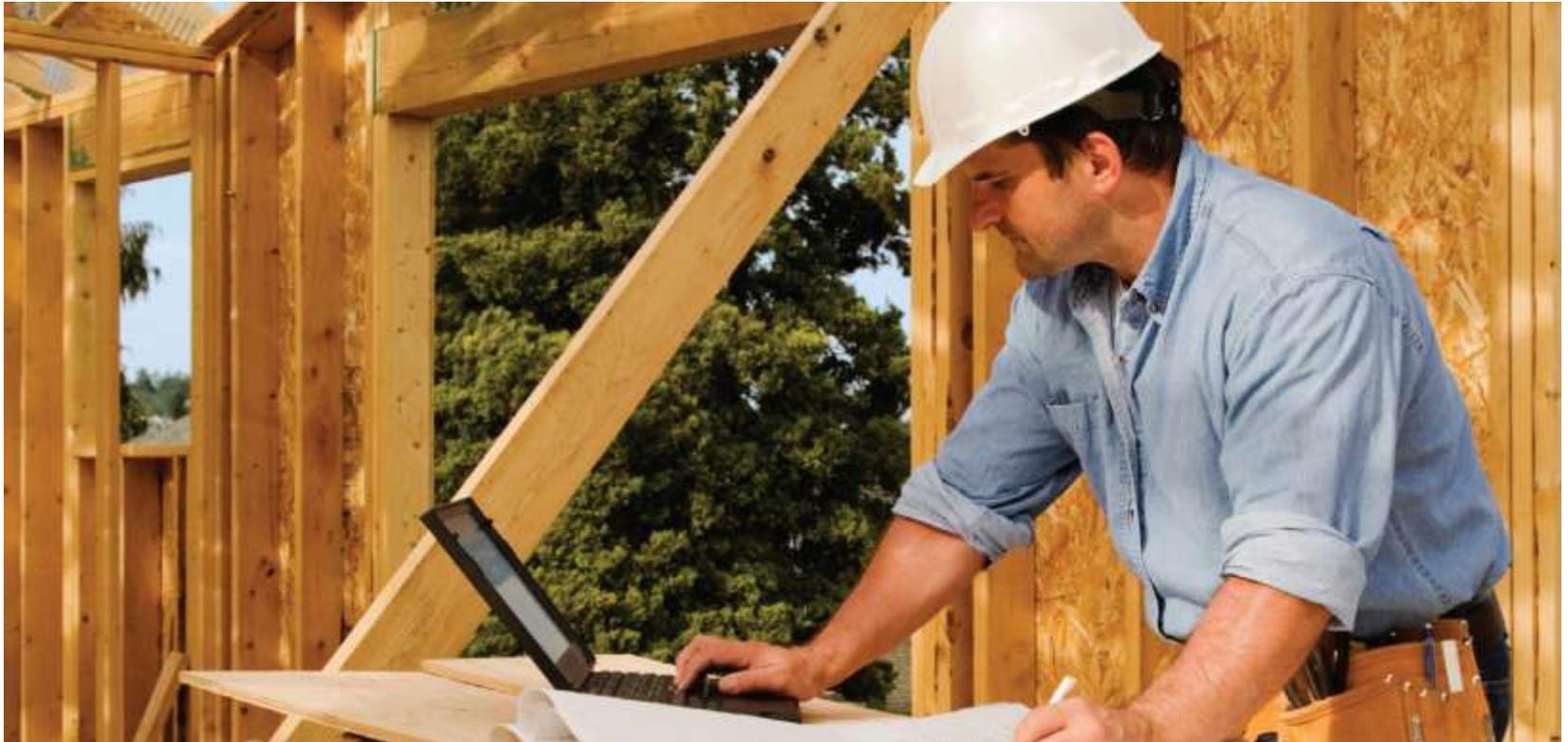
Engius

Stillwater, Oklahoma



MyGov

Ada, Oklahoma



Martin Bionics

Oklahoma City, Oklahoma



Amethyst Research

Ardmore, Oklahoma



Access Optics

Broken Arrow, Oklahoma



Zivko Aeronautics Guthrie, OK



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www.ocast.ok.gov

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