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NSF

- Independent agency to support BASIC research and education
- Grant mechanism in two forms:
 - ◆ Unsolicited, curiosity driven (the majority of \$)
 - ◆ Solicited, more focused
- All fields of science & engineering
- Discipline-based structure, some cross-disciplinary
- Supports large facilities



National Science Foundation
Alexandria, Virginia

source: <https://www.nsf.gov>



NSF MISSION and VISION

Mission:

“to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes.”

Vision:

“A Nation that is the global leader in research and innovation.”

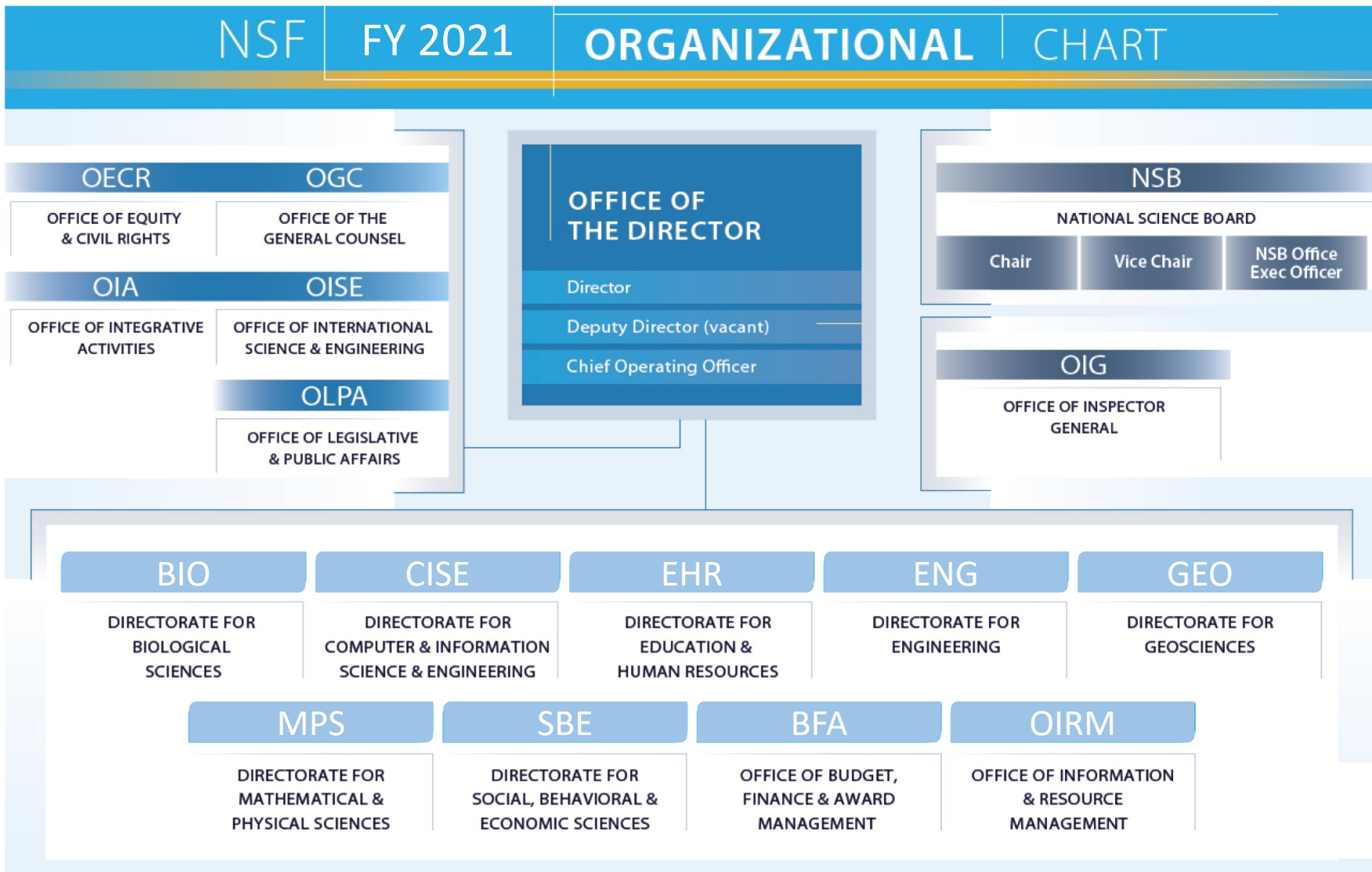


Core Values:

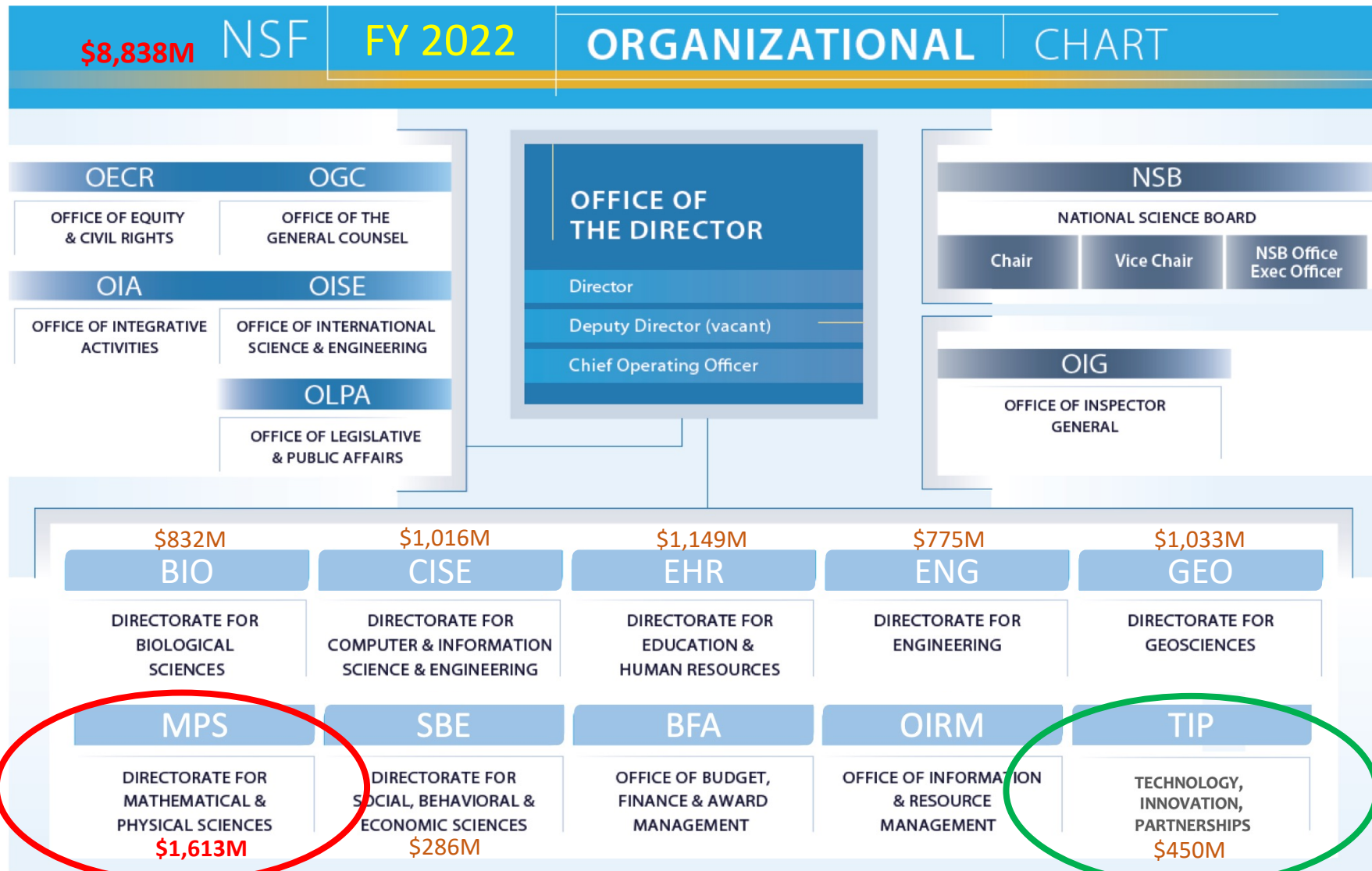
ExPLICIT

- **Excellence**
- **Public Service**
- **Learning**
- **Inclusion**
- **Collaboration**
- **Integrity**
- **Transparency**





source: <https://www.nsf.gov/staff/orglist.jsp>



source: <https://nsf.gov/about/congress/119/highlights/cu22.jsp>

DIRECTORATE FOR MATHEMATICAL AND PHYSICAL SCIENCES (MPS)

DIVISION OF ASTRONOMICAL SCIENCES

DIVISION OF CHEMISTRY

DIVISION OF MATERIALS RESEARCH

DIVISION OF MATHEMATICAL SCIENCES (DMS)

DIVISION OF PHYSICS

OFFICE OF MULTIDISCIPLINARY ACTIVITIES

source: <https://www.nsf.gov/mps/about.jsp>

DIVISION OF MATHEMATICAL SCIENCES

ALGEBRA AND NUMBER THEORY

ANALYSIS

APPLIED MATHEMATICS

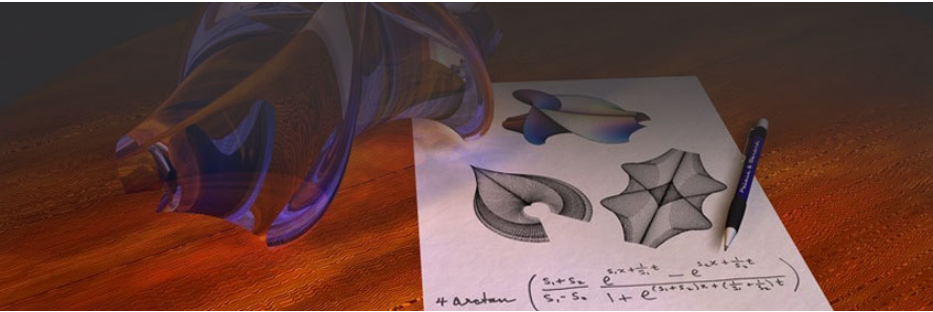
COMBINATORICS/
INFRASTRUCTURE/PROBABILITY

COMPUTATIONAL MATHEMATICS

GEOMETRIC ANALYSIS & TOPOLOGY

MATHEMATICAL BIOLOGY

STATISTICS



source: <https://www.nsf.gov/div/index.jsp?div=DMS>

PROGRAMS: DMS

- **Core Disciplinary Research Programs** (AM, CM, MB, etc.)
- **Special Research Programs** (FRG, NIGMS, CDS&E, ATD, AMPS, etc.)
- **Training** (RTG, GRFP, REU, tec.)
- **Career Development** (MSPRF, CAREER, LEAPS, etc.)
- **Research Institutes** (MSRI, NSF-Simons Research Centers, TRIPODS, etc.)
- **Infrastructure** (Conferences, MRI, etc.)
- **Other Special Research Programs Available to DMS Communities** (SaTC, DMREF, NSF-NIST, etc.)

source: <https://www.nsf.gov/funding/programs.jsp?org=DMS>



DMS ACTIVE FUNDING OPPORTUNITIES

Mathematical Biology	MB	PD 22-7334	Anytime
Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences	CDS&E-MSS	PD 22-8069	Anytime
Secure and Trustworthy Cyberspace	SaTC	NSF 22-517	Anytime
Conferences and Workshops in the Mathematical Sciences		NSF 21-541	Anytime
Geometric Analysis	GA	PD 22-1265	November 1, 2022
Topology		PD 22-1267	November 1, 2022
Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science	SCH	NSF 21-530	November 10, 2022



DMS ACTIVE FUNDING OPPORTUNITIES

Applied Mathematics	AM	PD 16-1266	November 15, 2022
Computational Mathematics	CM	PD 16-1271	December 1, 2022
Statistics		PD 18-1269	December 15, 2022
Cyberinfrastructure for Sustained Scientific Innovation	CSSI	NSF 22-632	December 16, 2022
Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships	MPS-Ascend	NSF 23-501	January 25, 2023
Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences	LEAPS-MPS	NSF 22-604	January 26, 2023
Designing Materials to Revolutionize and Engineer our Future	DMREF	NSF 23-???	January ??, 2023

DMS ACTIVE FUNDING OPPORTUNITIES

Mathematical Sciences Infrastructure Program		PD 20-1260	February 7, 2023
Algorithms for Modern Power Systems	AMPS	NSF 22-569	February 13, 2023
Algorithms for Threat Detection	ATD	NSF 20-531	February 15, 2023
Internet Measurement Research: Methodologies, Tools, and Infrastructure	IMR	NSF 22-519	February 15, 2023
NSF-CBMS Regional Research Conferences in the Mathematical Sciences	CBMS	NSF 19-539	April 28, 2023
Research Training Groups in the Mathematical Sciences	RTG	NSF 20-608	June 6, 2023
Faculty Early Career Development Program	CAREER	NSF 22-586	July 26, 2023



DMS ACTIVE FUNDING OPPORTUNITIES

Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences	NIGMS	NSF 22-600	September 18, 2023
Probability		PD 18-1263	September 25, 2023
Combinatorics		PD 18-7970	September 26, 2023
Foundations		PD 18-1268	September 26, 2023
Analysis		PD 20-1281	September 30, 2023
Algebra and Number Theory	ANT	PD 20-1264	October 13, 2023
Mathematical Sciences Postdoctoral Research Fellowships	MSPRF	NSF 22-619	October 18, 2023



