



**Rober Noyce Teacher Scholarship  
Program Track 3: Master Teaching  
Fellowships at Montana State  
University – Round 1  
(NSF Award No. 2345186)**

Rural and American Indian School  
Educators as Science, Technology,  
Engineering, and Mathematics  
Leaders (RAISE STEM Leaders)

<https://www.montana.edu/smrc/noyce/>



**NSF Noyce Master Teaching Fellows  
Networking and Orientation Dinner**

Wednesday, June 18

5:30 – 7:30 PM

Rendezvous Conference Room, MSU





# Recruitment:

## Noyce Teacher Fellows Summary by School District



District	School	MTFs	MTFs in graduate studies
Browning	Browning High & Napi Elem	4	2
Colstrip	Frank Brattin Middle	1	0
Cut Bank	Cut Bank High	2	1
Hardin	Hardin Middle & Crow Agency	5	2
Polson	Polson High School	3	0
Power	Power High School	1	0
Pryer	Plenty Coups High	1	0
Ronan	Ronan Middle	2	0
St. Ignatius	St. Ignatius Middle	1	0
St. Labre	St. Labre High & Pretty Eagle Catholic Academy	3	1
Superior	Superior JH/High	3	3
Total		26	9



# Recruitment



Category	Count
Projected Fellows	26
Total Funded to Date	26
Funded This Reporting Year	26

**Note: Adding one more math teacher fellow would bring the total to 27 — a perfect cube ( $3^3$ ) — and contribute to a more balanced distribution between math and science focus areas.**





# **Robert Noyce Teacher Scholarship Program Track 3: Master Teaching Fellowships Networking and Orientation Dinner Agenda**



## **5:30 PM – 6:00 PM Welcome and Opening Remarks**

- Introduction of attendees

## **6:00 PM – 7:30 PM Noyce Fellows Orientation**

- Dinner continues during orientation
- Fellowship Agreement & Promissory Note
- Q&A session



# Robert Noyce Teacher Scholarship Program Track 3: Master Teaching Fellowships Goals/Objectives



The project aims to empower in-service teachers to become exemplary STEM leaders who draw on locally relevant knowledge and community context to **enhance academic rigor and increase student engagement in STEM education for all learners.**

1. Enhancing the leadership competence of 26 in-service STEM educators over five years.
2. Integrating funds of knowledge and Montana's Indian Education for All (IEFA) into STEM curricula and instruction
3. Empowering MTFs to lead formal and informal STEM activities tailored to increase student engagement in STEM learning.



## Robert Noyce Scholarship Program: **Master Teaching Fellowship Track**



“The term “fellowship” means funds awarded: ...in the NSF Master Teaching Fellowships Track to a STEM teacher (in which case the funds are also referred to as a salary supplement).” (p.7)

**Source:** Robert Noyce Teacher Scholarship Program Solicitation in 2023



## Robert Noyce Scholarship Program: **Master Teaching Fellowship Track**



“MTFs with elementary certification or licensure should teach mathematics and/or science for at least 50% of their classroom teaching responsibilities” (p. 15)

**Source:** Robert Noyce Teacher Scholarship Program Solicitation in 2023

**Note.** MSU Noyce MTF program will verify the status of your course teaching responsibilities every year during your fellowship period.



# Amount and Duration of Salary Supplements (Track 3: MTF)

“...While participating in the program and teaching in a high-need LEA, MTFs must receive a salary supplement of \$10,000 or more per year for each year of **the five-year teaching commitment period** (for those possessing a master’s degree) or **each of the four-year teaching commitment** (for those possessing only a bachelor's degree) after earning the master's degree.” (p.15)

**Source:** Robert Noyce Teacher Scholarship Program Solicitation in 2023

- MSU Cohort 1 Noyce Master Teaching Fellows: Fellows possess a master’s degree
- MSU Cohort 2 Noyce Master Teaching Fellows: Fellows only possess a bachelor’s degree in Education or STEM



# MSU Noyce Cohort 2 Fellows: MTFs who do not start the Noyce program with a master's degree



“...must be enrolled in and complete an education or STEM master’s degree program during their first year of participation. ..., MTFs must complete the master’s degree in **their first year of the MTF program** and a maximum of one year cost of attendance support (counted as the salary supplement for year one) may be offered only in the final year of the master’s degree program.” (p. 15)

**NOTE:** For Track 3 projects, “one year” may include **up to 14 months** in order to allow for two summers as part of the master's degree program. MTFs may not begin receiving the other four years of salary supplements until the master’s degree has been completed.”

**Source:** Robert Noyce Teacher Scholarship Program Solicitation at <https://nsf-gov-resources.nsf.gov/solicitations/pubs/2023/nsf23586/nsf23586.pdf?VersionId=t1BklnkklYPxzBOh.UhQ7u.NFHXYFBh>



# MSU Noyce MTF Budget



**Total Awarded Budget: \$2,999,688**

**Total Awarded Budget for Participants: \$2,017,856**

F. PARTICIPANT SUPPORT COSTS			
1. STIPENDS	\$	1,618,500	
2. TRAVEL		230,450	
3. SUBSISTENCE		0	
4. OTHER		168,875	
TOTAL NUMBER OF PARTICIPANTS	( 156)	TOTAL PARTICIPANT COSTS	2,017,825

Participants	5-Year Fellowship Term	F. 1. Stipends (Value: \$60K)
Cohort 1 Fellows	1/1/2025 – 12/31/2029	\$60K (\$12K per year up to 5 years)
Cohort 2 Fellows	5/16/2025 – 5/15/2030	14-month tuition + \$48K (\$12K per year up to 4 years)

**Projected Agreement Signing Date: October 2024**

**Reminder:** A recommendation letter, including consent for this agreement from your school principal or superintendent, is required.



# Projected Noyce Paycheck/Stipend Calendar



Cohort	Semester	2024	2025	2026	2027	2028	2029	2030
1 (\$60K: \$12K per yr. up to 5 yrs.)	Spring		\$4K (Mar.) Group A	\$4K (May)	\$4K (May)	\$4K (May)	\$4K (May)	
	Summer + Fall		\$4K (Sep.)	\$4K (Sep.)	\$4K (Sep.)	\$4K (Sep.)	\$4K (Aug.)	
	Winter		\$4K (Dec.)	\$4K (Dec.)	\$4K (Dec.)	\$4K (Dec.)	\$4K (Dec.)	\$4K (May.) Group B
2 (\$60K: Tuition + \$12K per yr. up to 4 yrs.)	Spring		Bonus tuition 2	Tuition 3	\$4K (May)	\$4K (May)	\$4K (May)	\$4K (May)
	Summer + Fall		Tuition 1 +\$2000	Tuition 4+ \$? \$4K (Sep.)	\$4K (Sep.)	\$4K (Sep.)	\$4K (Aug.)	
	Spring	Bonus tuition 1	Tuition 2	\$4K (Dec.)	\$4K (Dec.)	\$4K (Dec.)	\$4K (Dec.)	

## NOTE:

1. The MSU Noyce program will try to process your paycheck/stipend by the end of the scheduled month. However, it could take you one or two more months to receive it.
2. The term “fellowship” means funds awarded ...in the NSF Master Teaching Fellowships Track to a STEM teacher (in which case the funds are also referred to as a salary supplement)(p.8).



# Recipient Obligations



An institution receiving a grant under Track 1: S &S, Track 2: TF, or Track 3: MTF agrees to:

1. ensure that Noyce recipients accept the terms of the scholarship, stipend, or fellowship and that recipients provide annual certification of employment and updated contact information;
2. supply to NSF relevant statistical and demographic data on Noyce recipients
3. cooperate with NSF third-party project monitoring that will require annual data collection; and
4. monitor, track, and report on the compliance of Noyce recipients with their teaching service commitments.
5. collect and report data on recipients' persistence as classroom teachers beyond their service commitments; the reporting requirement may extend for up to 12 years following the end date of the award and submission of the final project report.



# Recipient Obligations



“...the recipient will be required to repay all or a portion of the scholarship, stipend, or fellowship, if the recipient:

1. fails to maintain an acceptable level of academic standing in the program in which the individual is enrolled;
2. is dismissed from the program or institution for disciplinary reasons;
3. withdraws from the institution or program before completion of program requirements;
4. declares that the teaching service commitment will not be fulfilled; or
5. fails to fulfill the teaching service commitment.

If such circumstances occur before the completion of one year of the teaching service commitment under any track, the total amount of scholarship, stipend, or fellowship received by the individual must be repaid.

If the circumstance occurs after the completion of one year of the teaching service commitment, the amount to be repaid will be as follows:

**Track 3: MTF** - one-half of the total amount of salary supplements received, including fellowship support in year one for MTFs without master's degrees.”



# Cash Repayment Obligation

The following description could be included in the MSU agreement projected to be signed in October for a Cohort 2 fellow:

“The full remaining balance of the Scholarship Loan and Stipend will become immediately due and payable in accordance with the terms of the Promissory Note and this Agreement, if the Fellow:

- (1) fails to successfully complete the degree requirements of the Master Science in Science Program in the University’s College of Letters and Science; or
- (2) resigns or is terminated from employment by the School District.



# MSU Noyce Fellowship Agreement & Promissory Note I.B: Fulfill Teaching Service Commitment and Leadership Role



1. **Serving as a full-time STEM teacher in a high-need LEA for a total of five years (Note. Teacher Retention).**
2. Assuming a teacher leadership role within the school or high-need LEA where the MTF is employed, while meeting the teaching service commitment determined by the school and Montana State University, in addition to regular classroom responsibilities. Examples of such leadership activities include mentoring, participating in curriculum development, assisting with the planning and implementation of professional development experiences, and contributing to pre-service teacher education.
3. Taking on a leadership role in a regional, state, or national professional organization or development event as a lead person at least twice during the five-year fellowship term. Examples of such leadership activities include serving as a board member of a regional, state, or national professional education organization or leading a professional development.



# MSU Noyce Fellowship Agreement & Promissory

## Note I.C: Professional Development Growth



Professional Development/Learning	Expectation	Time & Duration
Joint Meeting of the Montana STEM Summer Institute (SSI), hosted by School Services of Montana, and the Annual STEM Leadership Academy, organized by the MSU Noyce Project Team	Mandatory for all	5 days between late July and early August
Online Monthly Meeting	75%+ participation rate for all	2nd Wednesday of each month from 7:00 to 8:00 PM, for four months each academic semester.
In-State Meetings, Conferences, and/or Training: MFPE, OPI Summer Institute, MCTM Mcubed, etc.	At least once per year to network with MTFs or other proactive teachers ( <b>Note.</b> Exempt for Cohort 2 Teacher Fellows until Fall 2025)	
Out-of-State Conferences and/or Training: WRNN (Western Regional Noyce Network), Noyce Summit, etc.		

# Monthly Meetings (Online)

- October 2, 2024 – Noyce Team Social Check-In
- December 4, 2024 – Noyce Team Social Check-In
- January 22, 2025 – Noyce Professional Learning #1
- February 9, 2025 – Student Engagement in STEM
- April 23, 2025 – What Does It Mean to Be a Noyce MTF?
- May 21, 2025 – Connecting Formal and Informal STEM Learning

*These sessions included sharing innovative projects, such as using the ellipse equation on Desmos to design the Flathead Nation's flags.*

# Conference Participation (In-Person)

Despite being in its first year, the project has made significant progress in enhancing MTFs' professional growth in STEM education by supporting their participation in both in-state and out-of-state conferences:

- 2024 STEM Summer Institute (Aug 5–7, MSU)
- 2024 MFPE Educator Conference (Oct 17–18, Bozeman)
- 2025 WRNN Conference (Feb 21–23, San Diego, CA))
- Upcoming:
  - 2025 OPI Summer Institute
  - 2025 STEM Summer Institute
  - 2025 Noyce Summit (Washington, D.C)
  - 2025 NCTM Annual Meeting (Atlanta, GA)



# What other evidences may MSU Noyce MTF program collect and measure?

1. Lead a STEM extracurricular activity (e.g., FIRST Robotics Competition, Science Fair, Science Olympiad, MathCounts, community STEM day)
2. Increase STEM achievement scores for All Students
3. Develop and implement a culturally responsive STEM curriculum
4. Provide a STEM PD workshop (e.g., SSI, MFPE, MCubed speaker, OPI Learning Hub leader)
- 5....



# IRB Human Subjects

- Please help Dr. Fenqjen Luo, the PI of the MSU Noyce MTF program, facilitate the IRB protocol application for Tribal IRBs.
- Please add Dr. Luo to your IRB applications for the research (e.g., your action research in MSSE coursework) sponsored by this grant program.

Project Title	Protocol #	Expired	Institution
Rural and American Indian School Educators as Science, Technology, Engineering, and Mathematics Leaders (RAISE STEM Leaders)	2023-1265-EXEMPT	12/22/2028	MSU
Building Capacity to Develop STEM Teacher Leaders in Montana Rural and American Indian Schools	2023-11-Luo 2022-418-EXEMPT	5/26/2024 11/2/2027	Salish Kootenai College MSU



# Q & A



## **1. Are Noyce participants responsible for travel expenses?**

MSU's Noyce program will support fellows for attending the joint meeting of STEM Summer Institute Annual STEM Leadership Academy from summer 2025 to summer 2029 and two out-of-state Noyce meetings

MSU's Noyce program may not be able to support other PD travel expenses. Fellows may need to use their Noyce stipends to cover additional travel.

## **2. Can online meetings be used to take the place of in-person visits?**

No.

## **3. Is Noyce responsible for expenses on course credits?**

Noyce program only pays tuition or credit hours and fee for fellows who don't have a master's degree

4. ...