Engineering Education at NSF

Lance C. Pérez, Ph.D.
Program Director, SFS co-lead
Division of Undergraduate Education
National Science Foundation

Division of Undergraduate Education (DUE)

- One of three divisions in the Education and Human Resources (EHR) Directorate
- DUE Core Programs

Workforce Development
- Advanced Technological Education (ATE)
- Robert Noyce Teacher Scholarship Program (Noyce)
- Federal Cyber Service: Scholarship for Service (SFS)
- SFS Scholarships in STEM (S-STEM)

Curriculum Improvement
- Course, Curriculum and Laboratory Improvement (CCLI)
- STEM Talent Expansion Programs (STEP)
- National STEM Education Distributed Learning (NSDL)

- Math Science Partnerships (MSP)

	00	01	02	03	04	05	06	07	08	09	09 ARRA	10 req.
ATE	29.25	39.16	39.11	43.16	45.23	45.00	45.51	50.58	51.46	51.62		64.00
CCE										10.00		5.50
CCLI	47.13	46.63	46.56	43.63[1]	40.41	40.64	36.63	37.78	37.54	39.00		39.21
EASE								1.82	5.48	5.00		
MSP[2]								45.95	47.87	61.00	40.00	58.22
Noyce			5.00	7.00	7.95	7.89	9.00	10.30	55.05[3]	55.00	60.00	55.00
NSDL	13.00	24.95	24.56	22.60[1]	18.49	18.43	15.50	17.63	15.84	16.25		16.25
SFS		11.18	30.36[4]	11.18	16.08	14.12	10.50	11.36	11.30	15.00		15.00
STEP			5.00	22.00	24.85	25.00	26.00	28.90	29.48	29.48		31.53
ASA		3.00	3.00	3.00[5]								
DTS[6]		1.51	1.51	1.51	1.51	1.31						
HE-CLT					0.99	0.86	1.00					
Teach Prep	26.93	14.52	6.50	6.52								
Total Apps.	**116.31**	**140.95**	**161.70**	**160.60**	**155.51**	**153.25**	**144.14**	**204.96**	**254.00**	**283.23**	**100.00**	**289.91**
CSEMS/S-STEM[7]	23.16	68.37	34.69	25.30	33.91	0.54	80.95	100.40	92.40	100.00		100.00
Total All Sources	**139.47**	**209.32**	**196.39**	**185.90**	**189.42**	**153.79**	**225.09**	**305.36**	**346.40**	**383.23**	**100.00**	**389.91**

Transforming Undergraduate Education in STEM (TUES)

- This is the *proposed* evolution/replacement for the CCLI program.
- No budgetary or disciplinary impact at the programmatic level.
- Four tracks
  - Type I $200,000 or $250,000 if partnering with a 2-year school
  - Type II $600,000
  - Type III $5,000,000
  - Central Resource Projects up to $3,000,000
- The program specific review criteria have been modified to emphasize
  - *ALL* projects must have clear and substantial potential to impact other institutions.
  - *ALL* projects must be based on current education literature and have a clear and substantial potential to contribute to that knowledge base.