Homeland Security Advanced Research Projects Agency

BAA 11-02 Project Introductions

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Director

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Cyber Security R&D Broad Agency Announcement (BAA)

- Delivers both near-term and medium-term solutions
  - To **develop new and enhanced technologies** for the detection of, prevention of, and response to cyber attacks on the nation's critical information infrastructure, based on customer requirements
  - To perform research and development (R&D) aimed at **improving the security of existing deployed technologies** and to ensure the security of new emerging cybersecurity systems;
  - To **facilitate the transfer of these technologies** into operational environments.

- Proposals Received According to 3 Levels of Technology Maturity

Type I (New Technologies)
- ✓ Applied Research Phase
- ✓ Development Phase
- ✓ Demo in Op Environ.
- ✓ Funding ≤ $3M & 36 mos.

Type II (Prototype Technologies)
- ✓ More Mature Prototypes
- ✓ Development Phase
- ✓ Demo in Op Environ.
- ✓ Funding ≤ $2M & 24 mos.

Type III (Mature Technologies)
- ✓ Mature Technology
- ✓ Demo Only in Op Environ.
- ✓ Funding ≤ $750K & 12 mos.

Note: Technology Demonstrations = Test, Evaluation, and Pilot deployment in DHS "customer" environments

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BAA 11-02 Technical Topic Areas (TTAs)

TTA-1	Software Assurance	DHS, FSSCC
TTA-2	Enterprise-Level Security Metrics	DHS, FSSCC
TTA-3	Usable Security	DHS, FSSCC
TTA-4	Insider Threat	DHS, FSSCC
TTA-5	Resilient Systems and Networks	DHS, FSSCC
TTA-6	Modeling of Internet Attacks	DHS
TTA-7	Network Mapping and Measurement	DHS
TTA-8	Incident Response Communities	DHS
TTA-9	Cyber Economics	CNCI
TTA-10	Digital Provenance	CNCI
TTA-11	Hardware-Enabled Trust	CNCI
TTA-12	Moving Target Defense	CNCI
TTA-13	Nature-Inspired Cyber Health	CNCI
TTA-14	Software Assurance MarketPlace (SWAMP)	S&T

- 1003 White Papers
- 224 Full Proposals encouraged

- Int'l participation from AUS, UK, CA, NL, SWE

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White Papers: Encourage/Discourage

Topic #	# of Submitted White Papers	# of Encouraged White Papers	# of Not Encouraged White Papers	White Paper Acceptance Percentage
TTA 01	85	25	60	29.41%
TTA 02	82	13	69	15.85%
TTA 03	67	13	54	19.40%
TTA 04	143	32	111	22.38%
TTA 05	125	19	106	15.20%
TTA 06	141	30	111	21.28%
TTA 07	50	17	33	34.00%
TTA 08	33	8	25	24.24%
TTA 09	42	11	31	26.19%
TTA 10	42	11	31	26.19%
TTA 11	73	12	61	16.44%
TTA 12	69	19	50	27.54%
TTA 13	31	8	23	25.81%
TTA 14	20	6	14	30.00%
Totals	1003	224	779	22.33%

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Encouraged White Papers: By Proposal Type

TTA	# of Submitted White Papers	# of Encouraged White Papers	Encouraged WP by Type Counts		
			Type 1	Type 2	Type 3
TTA01	85	25	13	12	0
TTA02	82	13	6	5	2
TTA03	67	13	8	5	0
TTA04	143	32	14	18	0
TTA05	125	20	13	5	2
TTA06	141	29	11	17	1
TTA07	50	17	8	6	3
TTA08	33	8	7	1	0
TTA09	42	11	10	1	0
TTA10	42	10	5	4	1
TTA11	73	13	8	4	1
TTA12	69	19	11	7	1
TTA13	31	8	7	1	0
TTA14	20	6	6	0	0
Totals	1003	224	127	86	11

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BAA 11-02 White Paper Summary

- From SUBMITTED
  - 726 WPs from industry
  - 214 WPs from academic institutions
  - 63 WPs from labs/government
  - 1003 TOTAL

- From ENCOURAGED
  - 132 from industry 18.18% acceptance / 58.93% of total
  - 82 from academia 38.32% acceptance / 36.61% of total
  - 10 from lab/government 15.87% acceptance / 4.46% of total

  224 TOTAL

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BAA 11-02 Full Proposal Statistics – Type by TTA

TTA	Encouraged White Papers	Full Proposals Submitted	Full Proposal Type Counts		
			Type I	Type II	Type III
TTA 01	25	25	13	12	0
TTA 02	13	12	5	5	2
TTA 03	13	13	9	4	0
TTA 04	32	32	20	12	0
TTA 05	19	17	11	4	2
TTA 06	30	29	10	19	0
TTA 07	17	17	8	6	3
TTA 08	8	8	7	1	0
TTA 09	11	9	8	1	0
TTA 10	11	9	4	4	1
TTA 11	12	12	7	4	1
TTA 12	19	16	9	6	1
TTA 13	8	8	7	1	0
TTA 14	6	6	6	0	0
TOTALs	**224**	**213**	**124**	**79**	**10**

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BAA 11-02 Final Selections

Topic #	Selectable	Selectable, Not Funded	Not Selectable	Totals	
TTA 01	3	1	21	25	
TTA 02	2	1	9	12	
TTA 03	4	0	9	13	1 UK
TTA 04	2	2	28	32	1 UK
TTA 05	2	2	13	17	
TTA 06	4	2	23	29	1 AUS
TTA 07	4	2	11	17	
TTA 08	1	0	7	8	
TTA 09	2	1	6	9	1 AUS
TTA 10	3	0	6	9	
TTA 11	2	0	10	12	
TTA 12	2	2	12	16	
TTA 13	2	0	6	8	
TTA 14	1	0	5	6	
Totals	34	13	166	213	

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BAA 11-02 Full Proposal Summary

- From SUBMITTED
  - 131 from Industry 33.8%
  - 72 from Academia 61.5%
  - 10 from Lab/Government 4.7%

- From FUNDED
  - 14 from Industry 10.69% acceptance / 52.8% of total
  - 18 from Academia 25.00% acceptance / 41.7% of total
  - 2 from Lab/Government 20.00% acceptance / 5.5% of total

CONGRATULATIONS!!!

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For more information, visit

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