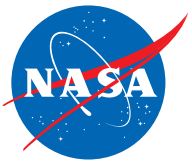


THE INNOVATION CATALYST



FEBRUARY 2022

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TECH TRANSFER TIP

with Senior Technology
Manager Viva Miller

A **NEW TECHNOLOGY
REPORT** IS REQUIRED TO
START THE SOFTWARE
RELEASE PROCESS.



»» UPCOMING EVENTS:



INNOVATOR HOUR:

TUESDAY, FEBRUARY 8, 1:00–2:00 P.M.



SOFTWARE 101



At first glance, the commercialization and licensing of NASA software is very similar to that of other technologies. For starters, it all begins with a New Technology Report (NTR). Like other technologies, software also goes through screening and assessment, with a few differences. Here are some key points to keep in mind:

1) NTR SUBMISSION:

Submit a new NTR for **each new version of the software**. Minor changes such as bug fixes do not require a new NTR.

2) SOFTWARE RELEASE SYSTEM (SRS):

After submitting your NTR, you will need to prepare and submit a Software Release System package to be reviewed by the Software Release Authority (SRA).

3) SOFTWARE RELEASE SYSTEM PACKAGE:

There are three sections in the SRS review package:

Software release authorization: involves basic information about your software.

NPR 7150.2C Compliance Matrix: your software classification determines the relevant software engineering requirements.

Section 508 Compliance: required if your software has a human interface.

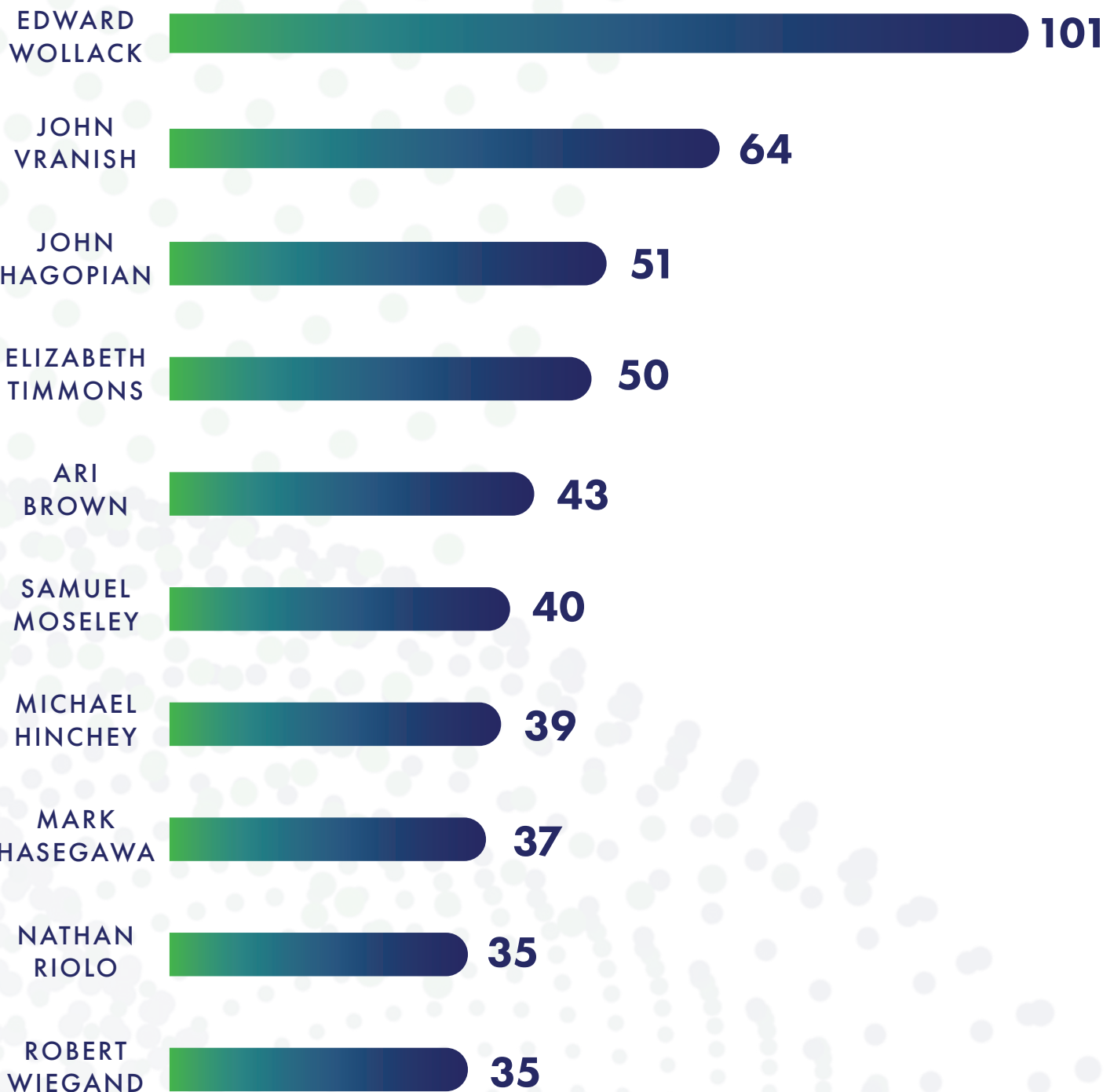
4) TRACKING YOUR SOFTWARE ON SRS:

You can track the progress of your software on the Developer Dashboard in SRS (<https://softwarerelease.ndc.nasa.gov>)

Still have questions? We'll be happy to help! Get in touch at:
techtransfer@gsfc.nasa.gov

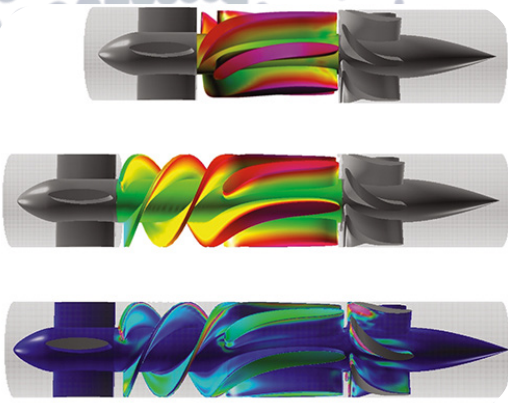
THE GODDARD TOP TEN

**CONGRATULATIONS TO THE TOP TEN INNOVATORS
WITH THE MOST NTR SUBMISSIONS OF ALL TIME!**



FEATURED SPINOFFS

KEEPING HEARTS PUMPING (FOR VALENTINE'S DAY!)



VENTRICULAR ASSIST DEVICE:

NASA experts partnered with the medical industry to develop a life-saving heart pump for patients awaiting transplants. NASA supercomputers and computational fluid dynamics technology, which model fuel and oxide flow through rocket engines, were essential for the development of design improvements that improved blood flow patterns and reduced red cell blood damage.

HOME-GROWN HERBS FOR DINNER, ANYONE?



COUNTERTOP GARDEN:

The same technology capable of growing crops during long stays in space has now found further use growing plants on countertops across the world! Through aeroponics, or the process of growing plants suspended in air, countertop gardens make it possible to grow herbs, crops, flowers, and more without the need for soil or sunlight.

GETTING READY WITH NASA

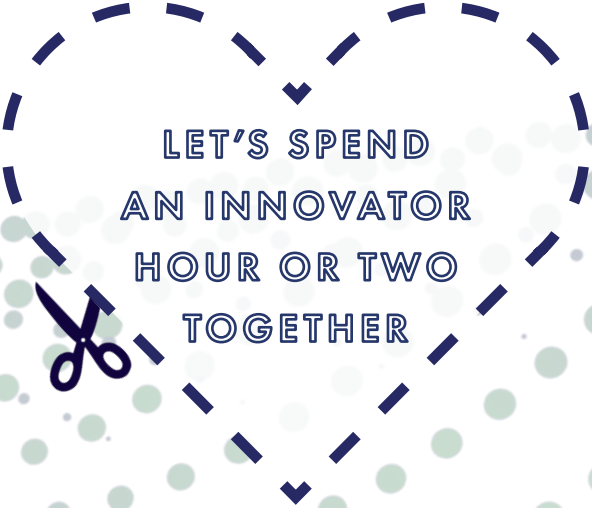


HAIRSTYLING TOOLS:

NASA technologies are now in several hairstyling products. Metallic-ceramic nanoparticles that emit negative ions when heated are now in hair irons, brushes, and dryers, making hair easier to style. Nanosilver particles create tools with self-disinfecting surfaces. Even NASA-developed LED devices are now used to stimulate hair growth in dormant hair follicles!



**HAPPY
VALENTINE'S
DAY FROM
SPO!**



**LET'S SPEND
AN INNOVATOR
HOUR OR TWO
TOGETHER**



**YOU ARE
SPO-CIAL!**



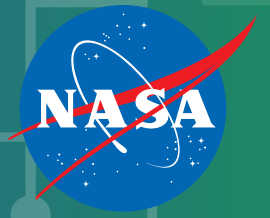
**ROSES ARE RED,
VIOLETS ARE BLUE
ALL THAT WE NEED
ARE NTRS
FROM YOU!**



**LET'S MAKE
A STRATEGIC
PARTNERSHIP**



**WANT TO GO
FOR A COFFEE
BREAK?**



THE STRATEGIC PARTNERSHIPS OFFICE PRESENTS

INNOVATOR HOUR

Do you have questions about protecting your innovation?

Do you want to learn more about how to submit New Technology Reports?

Do you have general questions about technology transfer or partnerships?

SPO can help!

Sign up for a 20-minute Innovator Hour timeslot and get a one-on-one Teams session with a SPO representative!

NEXT SESSION: **TUESDAY, FEBRUARY 8, 1:00-2:00 P.M.**

HOW DO I SIGN UP?

To register for the upcoming session and secure your timeslot, please fill out [this form.](#)

Timeslots available:

1:00-1:20 P.M.

1:20-1:40 P.M.

1:40-2:00 P.M.

2022 SBIR/STTR SOLICITATIONS NOW OPEN!

The SBIR and STTR Solicitations are produced annually in partnership with NASA's Mission Directorates and Centers to focus on the Agency's priority mission needs. NASA groups its interests and related technologies into Focus Areas and their respective subtopics to make it easier for Offerors to identify matches to their research and development capabilities.

OPEN DATE:
January 6, 2022

CLOSE DATE:
March 9, 2022

SUBTOPICS:

A – Aeronautics Research Mission Directorate (ARMD)

H – Human Exploration and Operations Mission Directorate (HEOMD)

S – Science Mission Directorate (SMD)

Z – Space Technology Mission Directorate (STMD)



SBIR · STTR
America's Seed Fund™

For more information on solicitations and additional research topics, visit
<https://sbir.gsfc.nasa.gov/solicitations>

FY22 Research Topics with GSFC as Leading Center

Z1.06 Radiation-Tolerant High-Voltage, High-Power Electronics (SBIR)

H9.03 Flight Dynamics and Navigation Technologies (SBIR)
Scope Title: Advanced Techniques for Trajectory Design and Optimization

S16.03 Guidance, Navigation, and Control (SBIR)
Scope Title: Guidance, Navigation, and Control (GNC) Sensors and Actuators

S11.03 Technologies for Passive Microwave Remote Sensing (SBIR)
Scope Title: Components or Methods to Improve the Sensitivity, Calibration, or Resolution of Microwave/Millimeter-Wave Radiometers

S14.02 Particle and Field Sensors and Instrument-Enabling Technologies (SBIR)

S14.03 Remote Sensing Instrument Technologies for Heliophysics (SBIR)

S16.07 Cryogenic Systems for Sensors and Detectors (SBIR)
Scope Title: Low-Temperature/High-Efficiency Cryocoolers

S16.08 Atomic Quantum Sensor and Clocks (SBIR)

S12.04 X-Ray Mirror Systems Technology, Coating Technology for X-Ray-UV-OIR, and Free-Form Optics (SBIR)

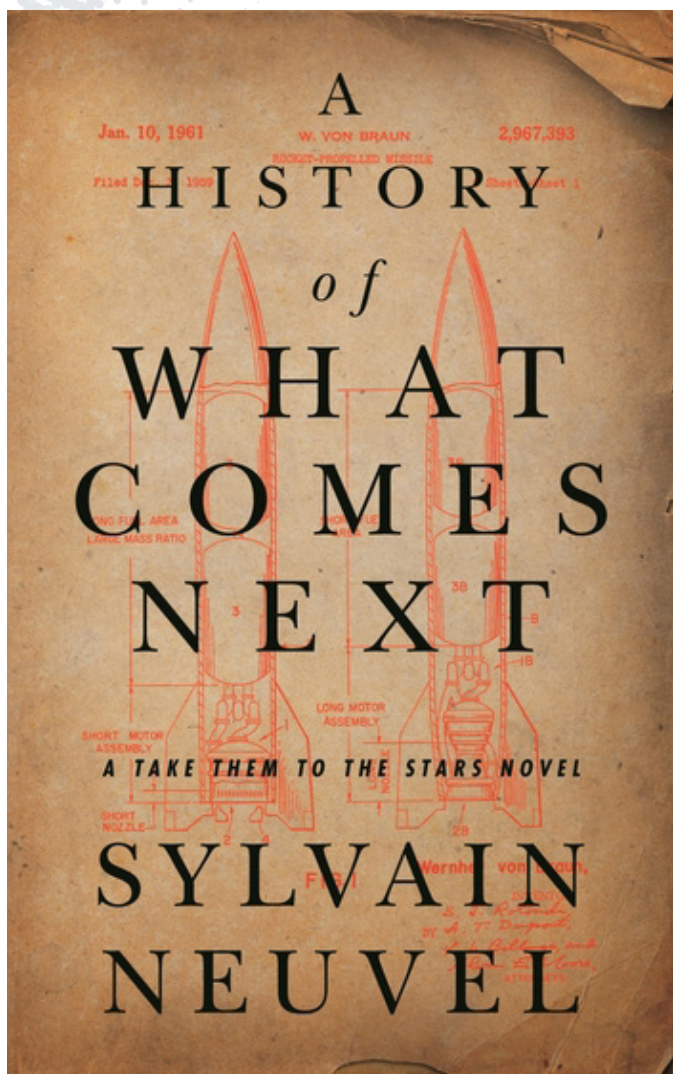
S16.06 Command, Data Handling, and Electronics (SBIR)
Scope Title: Analog-to-Digital Conversion Components

S11.06 Earth Science Decision Support Tools Focused on the Mitigation of Climate Change Impacts (SBIR)

S17.04 Application of Artificial Intelligence for Science Modeling and Instrumentation (SBIR)

S16.05 Thermal Control Systems (SBIR)

THE LITERARY X-CHANGE BOOK OF THE MONTH



A HISTORY OF WHAT COMES NEXT, 2021:

For generations, Mia's family has shaped human history to push them to the stars. The year is 1945 and now it is her turn. Her mission: to lure scientist Wernher Von Braun away from the Nazi party and into the American rocket program, securing the future of the space race.

But there is a threat.

A ruthless enemy lurks behind the scenes.

Sylvain Neuvel's genre-bending sci-fi thriller is a dark and gripping exploration of the amorality of progress and the nature of violence, as seen through the eyes of the women who make that progress possible and the men who are determined to stop them.

(synopsis by TOR Publishing)

FUN FACT:

Sylvain Neuvel, author of *A History of What Comes Next*, helped kick off the Literary X-Change with a live reading from his novel. Thanks, Sylvain!

WHAT IS THE LITERARY X-CHANGE?

It is a community library sponsored by the Strategic Partnerships Office launched in 2021 — with a little help from our partner, TOR Books. The library is located in the lobby of Building 22, and it is available to the entire Goddard community. Here's how it works:

TAKE ONE

If a book strikes your fancy take it! Read it, enjoy it, and when you're done, share it with a friend or bring it back to the X-Change.

GIVE ONE

It's up to everyone to keep the library stocked. Bring books you'd like to share with your community when you can, and continue being a friend of The Literary X-Change!