



International
Astronomical
Union | Office of
Astronomy
for Development

Using Astronomy for Development

Applications Open

<http://www.astro4dev.org/aboutiauooad/cfp/>

DEADLINE FOR STAGE 1: MAY 31

 /astro4dev

 @astro4dev

**CULTURE
AND SOCIETY**

HISTORY
Evolution of the universe
Our Origins
Big History

ANTHROPOLOGY
Ancient civilisations
Cultural roots

OPTICS
High-precision
Adaptive optics

COMPUTING
Fast hardware
Complex software

**TECHNOLOGY
AND SKILLS**

ELECTRONICS
Most sensitive
detectors clocks

SPACE
Satellites
Miniaturisation
Precision

PERSPECTIVE
Immensity of space
Global citizenship
Earth stewardship

INSPIRATION
Career in Science
and Technology



MATHEMATICS
Abstract thought

BIOLOGY
Building blocks
of life

CHEMISTRY
Producing organic
molecules

PHYSICS
Laboratory of
extremes
Making heavy
elements

**SCIENCE
AND RESEARCH**

IAU Strategic Plan 2010-20: interdisciplinary nature of Astronomy

ASTRONOMY AND SDGS: EXAMPLES



ASTRONOMY TO END HUNGER?



Agriculture and food sustainability + astronomy related techniques

“

I see strong parallels between estimating the distance to galaxies and quantifying the level of disease in a crop.

Professor Sarah Bridle



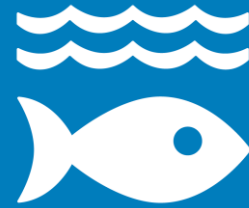
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 Tweet

<http://www.manchester.ac.uk/discover/news/technology-used-for-gazing-into-space-could-help-solve-the-worlds-food-crisis/>

ASTRO....ECOLOGY!

14 LIFE
BELOW WATER



15 LIFE
ON LAND



Rhinos in infrared light. (Endangered Wildlife Trust/LJMU)

<https://www.nytimes.com/2018/04/05/science/drones-infrared-cameras-animals.html>



11 SUSTAINABLE CITIES
AND COMMUNITIES



3 GOOD HEALTH
AND WELL-BEING



The **Astrophysicist** Who Wants to Help Solve **Baltimore's Urban Blight**

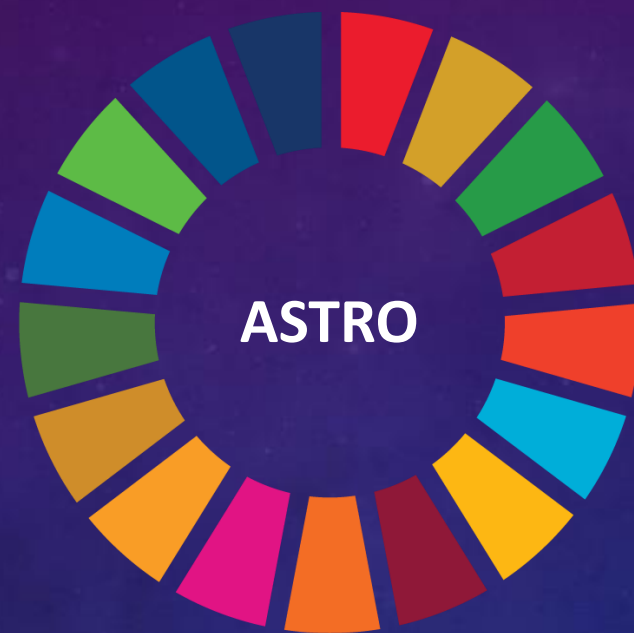
WIRED - 16-Jan-2018

Which at least begins to explain why **Baltimore** has tapped Tamás Budavári, an **astrophysicist** at Johns Hopkins University, to study their patterns. Budavári has spent most of his career modeling the universe, studying galaxies and how they tend to cluster. He contributed research to the Sloan Digital Sky ...

PHYSICS TODAY

Consortium aims to accelerate drug discovery process

says. "More physics-based modeling is going to be used to predict biology, and empirical laboratory work will be done to validate" the results. The changes in skill sets that are required to meet that new demand is happening now at GSK, he says. "We are hiring people we never thought we'd hire. We've hired astrophysicists."



IAU OAD CALL FOR PROPOSALS 2018

Two Stage Call process:

1. Stage 1: open for everyone
2 page application
2. Stage 2: selected proposals from Stage 1
longer, detailed application
interaction with OAD and Regions

Scoring:

- OAD review committee + external experts
- Input from OAD Regional Offices

SUSTAINABLE DEVELOPMENT GOALS



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DEADLINE FOR STAGE 1: MAY 31

PROPOSAL - TIPS

- Define the problem
- Where does astronomy fit in – can you use astronomy?
- What happens after your project – sustainability
- Team – do you have people with right experience and expertise?
- Partners – for funding, long term