



You Can Change the World. We Can Help.



Marcia Fournier PhD Volunteer President, Dimensions Sciences

Vicente Thiago, Dimensions Sciences Scholar, recently shared this message with us: "I managed to submit a scientific paper for publication and tomorrow will be my doctoral thesis defense. I would like to thank everyone involved in the DS Bridges program. Not only for financial aid, but also for everyone's dedication during the scholarship period. It was a unique unforgettable experience. You will forever be in the history of my scientific career."

We often receive notes like this and feel accomplished when we fulfill Dimensions Sciences' mission to assist early-career scientists from underrepresented communities through educational programs, mentoring, and scholarships to promote diversity in the sciences and to further equity, international collaboration, and innovative research.

I am proud to collaborate with multidisciplinary teams of volunteers to provide scholarships and mentoring for scientists starting their careers and facing gaps between academic programs or employment and, as a result, gaps in income. The Dimensions Sciences Bridges scholarship connects our scholars to opportunities and closes these gaps with monetary support and coaching to enable them to continue pursuing their careers in science. I am particularly appreciative of the work our Scholars did during the COVID-19 pandemic—by researching the virus, establishing community testing, developing novel diagnostics, and facilitating treatments in Brazil. To date, Dimensions Sciences has granted 63 scholarships and 6 awards to students and scientists in the U.S. and Brazil and succeeded in impacting 10 United Nations Sustainability Development Goals.

When we invest in an inclusive and diverse community of scientists, we create opportunities. We have heard from many of our scholars and awardees that they were at the point of giving up a career in science due to a lack of support. Dimensions Sciences awarded them merit-based scholarships just in time, and I am proud to report that nearly 100% of our alumni achieved a career milestone such as job offer, degree, publication, new scholarship, and/or other funding source in science in Brazil, Europe, and the United States.

We have partnered with multiple organizations and individual donors to deliver on our programs. We are also investing in science communication and fighting misinformation through our influence in social media, scientific publications, news outlets, digital education, and growing a support network of thousands of followers and subscribers.

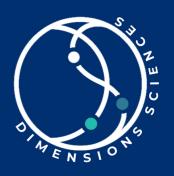
Working as a fully volunteer-based nonprofit does not come without challenges. Today we face the challenge of effectively recruiting and retaining volunteers. As a young nonprofit, it is tempting to spread ourselves too thin for the development of a vibrant, inclusive, diverse, community of scientists globally. But embracing our philosophy of building a volunteer-based organization requires efficiency: we have a responsibility to focus our volunteers' time and our donors' contributions on programs with the greatest impact and deliver these with strength.

In this report, we share more about how we are using our resources and collaborative approach. We are thrilled to give back to diverse scientists through life-changing experiences. Your support is greatly appreciated and can change the world.



At a Glance

Our philanthropic commitments and impact



By promoting education, training, scholarships, and mentoring to underrepresented scientists, Dimensions Sciences is working towards the United Nations's Sustainability Development Goals (SDGS) that ensures inclusive and equitable quality education and promote lifelong learning opportunities for all.

4 QUALITY EDUCATION



300+
Hours mentoring



Training, workshops, and webinars conducted

Beneficiaries of scholarships, awards, and mentoring



Blogs published



105











Featured Outreach

Helping to build strong communities





Publications, social media campaigns, and digital educational materials about sciences, scientists, discoveries, and personalities.

VIEWERS' PICKS













READERS' PICKS

<u>Is Artificial Intelligence the Future of Diagnostics?</u>
<u>October 25, 2022|Opinion</u>

Scholarship and Mentoring for Underrepresented
Scientists

July 11, 2022 Announcement

The Power of Owning Your Fear to Unlock Your Potential
March 31, 2022|Event

Link Between Omicron and HIV January 4, 2022 Opinion

102,307 Instragram Views 2400+ Hours olunteering

18,705Blog Views

6,200Total Followers









Scholarship & Awards

Honoring Women in Biotechnology Innovation







- The award "Nova Dimensão" is a pioneer initiative in partnership with the Coordination for the Improvement of Higher Education Personnel (CAPES) aiming to give merit to women working in the field of biotechnology in Brazil.
- The \$2000 (two thousand dollars) award honors a selected doctoral thesis focused on innovation and entrepreneurship produced by a women in the biotechnology area in Brazil.





2021



Giseli Buffon, Ph.D. Luciana Mendes, Ph.D.





Dr. Buffon is Founder and CEO at *Syntagea*, a biotech company developing microalgaes. She was the first in her family to graduate and now she is an employer and innovator. Congrats Dr. Buffon!





The problem:

- Only 3% of the 607 Nobel prizes have gone to women. Only three women have been single prize-winners.
- Fewer than 10 percent of the 250 startups were founded by women (Washington Post, 2020).



Dr. Mara Thais de Oliveira Silva

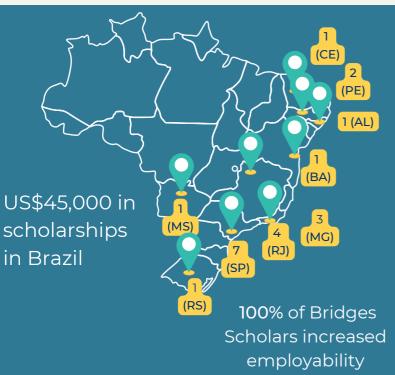
Research: "Evaluation of vaccine strategies formulated with probable recombinant virulence factors of Corynebacterium pseudotuberculosis in the control of caseous lymphadenitis"

Scholarship & Awards

Connecting Scientists to Opportunities







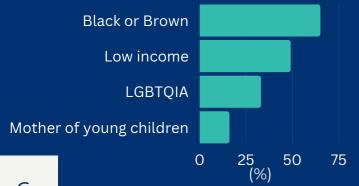




Since the inaugural program in 2020 we supported 21 Brazilian scientists working in life sciences or medical sciences with scholarships and mentoring. They are scientists with a master's degree or higher. Their research has global impact in areas such as COVID-19, climate change, materials, genomics, and infectious diseases. They responded to one or more inclusion criteria. They were working in science full time without a salary.

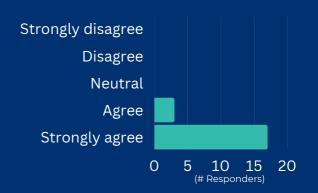
Bridges program provides scholarships and mentoring for scientists from underrepresented backgrounds who are performing scientific research but are working without monetary compensation.

About 53% of all candidates identified with at least one inclusion criteria, 30% identified with two, and 16% with three inclusion criteria respectively.



Bridges Scholars gain access to 12weeks mentoring with Dimensions Sciences Advice, Coaching, Training, and Support program aiming to enhancing science communication and peer support, building English skills, and providing training, coaching, mentoring, and networking opportunities.

Survey DS Bridges helped my career development



Scholars Research

Transforming the world





Ensure healthy lives and promote well-being for all at all ages

- COVID-19 TASK FORCE SCHOLARSHIP (all 2020 Scholars): research developing community testing, treatments, and prevention.
- Izabella Pena PhD
 - Postdoctoral Fellow at the Whitehead Institute
 - She investigates which chemicals build up in lysosomes in Huntington's Disease, a neurodegenerative disease.
- Luciana Mendes
 - New Dimension (Nova Dimensão) award honors a selected doctoral thesis focused on innovation and entrepreneurship produced by a women in the biotechnology in Brazil. Mendes' work with motor neuroprosthesis devices for stroke patients and the exploration of new technology to assist ankle joint movement was awarded.
- Hélina dos Santos Nascimento
 - Ecotoxicological and toxicological evaluation of surfactants based on LCCt salts proposed for the control of Aedes aegypti, the insect responsible for transmission of Zika, Dengue, Yellow Fever and Chikungunya
- Danilo Jobim
 - Evaluation of clinical metagenomics as an auxiliary tool for diagnosis and molecular surveillance in the context of COVID-19
 - Integrating genotype and phenotype in the validation of antimicrobial resistance prediction in clinica isolates of Corynebacterium spp. Multi-resistrant
- Eliana Ferreira Monteiro
 - Works in public health research with an emphasis on malaria, working mainly on: recominant proteins (MSPI) from Plasdomium malariae, P. vivax and P. falciparum, molecular biology, avian malaria, endemic and Trypanosoma cruzi vectors



Take urgent action to combat climate change and its impacts

- Clarissa Fontes PhD
 - Postdoctoral Fellow at the University of Minnesota
 - She investigates the capacity of oak species to resist drought
- Gibran Anderson Oliveira da Silva
 - Climate change effect on primates from Caatinga: computational science applied to climate change



Conserve and sustainblye use the oceans, seas and marine resources for sustainable development

- Hélina dos Santos Nascimento
 - Influence of riparian vegetation on in situ and ex situ aquatic ecotoxicology using genetic markers
 - Management of aquatic contamination



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

- Gibran Anderson Oliveira da Silva
 - Dedicates his studies to ecology, conservation, and education in collaboration with national and international organizations. Aims to measure the importance of biodiversity interactions to human society on distinct scales
 - Works with endangered primates in the Atlantic Forest of Paraíba, as well as environmental management of sloths in anthropized habitats
- Giseli Buffon is a PhD
 - Biotechnology in the field of agriculture at the University of Vale do Taquari. Her thesis studied infestation with phytophagous mites in rice plants. Founded biotech company Synalgea.

Scholars & Awardees

Testimonials show transformative power



100% of Scholars
would
recommend the
program to a
colleague

"I think the idea is amazing, congratulations by the way. The thing that I liked most is the friendly and collaborative environment built by the mediators. It is truly inspiring and comforting."

"The program was essential for me to do a self-assessment about my career development, as it was also important for professional and personal growth, therefore, I recommend it to everyone." "I have a very positive overview of the program. I think the idea is great, the contents nail exactly what the skills required to succeed, and the environment is friendly and supportive."

"The intensive personal development and coaching are as important as financial support for a lot of researchers."

"I learned how to better pay attention to myself, so I can realize what really makes me happy or unhappy regarding my professional and personal life."

"This is an excellent program and needs to be highly recommended and publicized." "I learned to be more selfconfident and set limits and goals. I now have greater selfcompassion."

Scholarship & Award Recipients

Meet 2022 Bridges Scholars







Eliana Monteiro PhD

- Milestone: International postdoctoral fellowship
- Institution: Institute Pasteur, Sao Paulo, Brazil
- Inclusion: Mother of schoolage children (up to 12 years
- Areas of Research: Biochemistry, Cell biology, Diagnostics, Immunology, Infections Diseases, Molecular biology



Gibran da Silva MS

- Milestone: Published dissertation, will start
- Institution: Federal University of Paraiba, Brazil
- Areas of Research: Biogeography, Botany, Climate change, Ecology, Population biology, Zoology



Sheila da Silva MS

- Milestone: Published research and doctoral thesis
- Institution: Federal University of Rio de Janeiro, Brazil
- Inclusion: Family low income
- Areas of Research: Microbiology, Molecular biology, OMICS (Genomics, Proteomics, Transcriptome)



Danilo Jobim MS

- Institution: Federal University of Bahia, Brazil
- community (self-declaration)
- Diagnostics, Genetics, Infections Diseases,



Vicente Thiago MS

- and published research



Helina Santos PhD

- Milestone: Doctoral thesis
- Federal da Grande Dourados.
- (pardo) or indigenous (selfdeclaration), Family low



Joelma de Oliveira MS®

- food production
- Paulo, Brazil
- Areas of Research:

Scholarship & Award Recipients



Showcased at the 2022 Summit

Bridges Scholars delivered 1-min pitches in English on their ideas and research projects with a chance of winning a cash prize of US\$500 for the most votes from the audience.

Presenters: Danilo Jobim MS, Eliana Monteiro PhD, Vicente Thiago MS, Gibran da Silva MS, Joelma de Oliveira MS, Helina Santos PhD, Sheila da Silva PhD, Gabriel Santos PhD (invited guest), and Amanda Santos MS (invited guest).

PITCH CONTEST WINNER



WATCH THE FULL WEBINAR



HONORABLE MENTIONS



GIBRAN DA SILVA

MSc | Ecology and Biogepgraphy



JOELMA OLIVEIRA

MSc| Biochemistry and Genetics



SHEILA DA SILVA

MSc | Molecular Biology and Microbiology



GABRIEL SANTOS

PhD | Ecology and Evolution

Who We Are

Volunteers giving back through lifechanging experiences



OUR HISTORY

Our mission is to assist earlycareer scientists from underrepresented communities with mentoring programs and scholarships to promote diversity in the sciences to further equity, international collaboration, and innovative research.

Seeing an urgent need for more inclusion, diversity, and equity in science, Marcia Fournier formed Dimensions Sciences along with co-founder Bob Chapman to deliver high-impact programs. Dimensions Sciences is a charity 501(c)(3) organization formed on November 21, 2019.

Our staff is 100% volunteer. We work through multidisciplinary teams of professional and student volunteers committed to science, technology, engineering, and mathematics (STEM). We take our convictions and turn them into action.

number of volunteers as of December 31, 2022



VOLUNTEERS SHARE THEIR TRAJECTORIES

Our volunteers and interns answer the question: "Why is science important to me?". We are four generations, come from different countries, have varied educational experiences, and speak multiple languages. 4 minutes view.

https://youtu.be/X-k1h1omoFE

5 Board Directors
6 Scientific Advisory Board Members
3 Scientific Committe in Residence
7 Mentors and Life Coach in Residence
11 Speakers
5 Communications and Campaigns
6 Front Office
2 Information Technology
2 Grant Writers

Board of Directors





Marcia Fournier, Ph.D., Founder and President





Bob Chapman, Co- Mariana Founder and Strategic Director



Marcio Alves Emerenciano, Ferreira, Ph.D.



Rachel Fleck

Bob has 30 years of service in global public policy, grassroots advocacy, and civic engagement. An openminded collaborator with robust experience at all levels of corporate and organizational management, he is a global citizen who has visited more than 55 countries, experiencing first-hand the hardships and highlights of the human condition. He is an alumnus of Northeastern University, **United Nations** International School, and George Washington **University Graduate** School of Political Management. He has lived in Puerto Rico, Costa Rica. Venezuela, and Brazil and is fluent in Spanish and Portuguese. He currently lives in Washington, D.C.

Mariana holds a Ph.D. in Oncology from the Brazilian National Cancer Institute (INCA). She is currently an Associate Researcher at the Department of Management and Incorporations of Health **Technologies** (DGITS/SCTIE). Mariana is also a permanent member at the Post Graduation Program in Oncology at INCA where she leads a research group that studies the causes and consequences of molecular alterations in cancer, focusing on hematological neoplasms. She has received the "Young Scientist of Our State" (FAPERJ) for the last 7 years and is a Scientist of the National Council for Scientific and **Technological** Development (CNPq) since 2015. Her personal challenges as a Brazilian well as the belief that plurality increases science quality give her selfmotivation to support diversity in science.

Marcio is a Full Professor at the Department of Genetics, Institute of Biology, Federal University of Rio de Janeiro, Brazil. He teaches postgraduate courses on genetics and plant biotechnology, and is a member of the Federal Commission of Biotechnology at the Coordination for the Improvement of Higher Level Education Personnel (CAPES). He received the Scientist of Our State Award from the Rio de Janeiro State Foundation to Support Research (FAPERJ) and is a Scientist of the National Council for Scientific and Technological Development (CNPq). He has published 74 scientific articles in international journals and has mentored dozens of students during their master and doctoral black woman in science as degrees. He is a testimony to the impact of international exchange scholarship. He currently lives in St. Louis, Missouri.

Rachel has more than 15 vears of banking experience. With a diverse background consisting of credit analysis and business development, Rachel works with commercial clients with \$5-75 million in annual revenues by assisting in strategic planning that supports growth, removes inefficiencies, and improves day-to-day processes. She prides herself in her ability to cultivate strong relationships with clients and centers of influence across various industries. including government contractors, professional services firms, nonprofit organizations, and commercial real estate companies, Rachel earned a bachelor's degree in business administration with a minor in management from Saint Leo University. She is passionate about promoting and advocating for women in business through global networking. empowerment, and collaboration.

Scientific Advisory Board





Pedro is Chief Executive Officer of

3D Biotechnology Solutions. He is

initiatives and innovation project

academia. He enjoys developing

new businesses from scratch and

completed the Ph.D. program in

science and technology policy at

State University of Campinas and

economic business management

assessment and decision support

Administration in strategic and

at Fundação Getúlio Vargas. He has been involved in the

development of projects in biotechnology, technology-based

entrepreneurship, impact

in science, technology and

commercial and regulatory

products based on tissue

engineering.

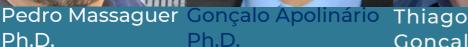
analysis of advanced therapy

management for the past 10 years

working with biotechnology

in the private sector and

a Master of Business



Center of Bioscience and Biotechnology at the State University of North Rio de Janeiro, working on innovative projects. He a Scientist of the National Council for Scientific and Technological Development (CNPq). He has published 52 scientific articles in international journals and has during their master's and doctoral innovation using data science, and property, and technological innovation, and has mentored the



Gonçalves Ph.D. Ph.D.

Thiago has a Ph.D. in of Technology), MSc in Astronomy (National Observatory, Rio de Janeiro), BSc in Physics (Federal University of professor at the Valongo University of Rio de Janeiro, fellowships such as Young Productivity in Research (CNPq), and currently Fulbright Scholar at the University of Massachusetts Amherst (USA). Science Working Group 3 for the European Extremely Large Researcher for the TolTEC camera. Dr. Gonçalves is also weekly column in a major news website in Brazil and extensive production of material in social media.



Ronan Batista

the Federal University of causes Chagas Disease (American Trypanosomiasis). Pharmaceutical Chemistry of the University of Salamanca, Spain (2003-2004) and as a postdoctoral fellow at the University of Dundee, U.K. Associate Professor ar the Chemistry, Federal university of Bahia, Brazil. His current research interests are focused

- What does the SAB do? The duties of our SAB involve advising on scientific programs and direction of the organization and tasks such as preparing request for applications, leading the selection of applicants for our scholarship programs, evaluating scholars' scientific progress, recruiting and working with Ad-hoc advisors and partners, providing mentoring and coaching to our scholars and organizing workshops to develop specific skills within our group of scholars (just to name a few).
- Additional 2022 members included: Fabio Gouveia, FioCruz, Biology and Data Science; Andrea Macedo, UniRio, Biology; Isaia Nisoli, UFRJ, Mathematics.

Mentors

Building inspiring relationships



Coach in Residence



Our coaches, scientific committee, and mentors in residence aim to enhance our Scholars experiences by encouraging science communication, promoting peer feedback, developing soft skills, and connecting scientists with opportunities of professional and personal growth. We aim to create a long-lasting impact on our community.

Scientific Committee in Residence



Juliana Schons Gulsrte Ph.D., Postdoctoral Fellow , University of Feevale, Brazil 2020 Task Force COVID-19 Scholar



Isaia Nisoli Ph.D., Professor, Federal University of Rio de Janeiro, Brazil



Martha Godinho Ph.D., Full Professor , Federal Institute of SDao Paulo, Brazil

Mentors in Residence

Paulo Amaral
Digital Transformation Executive at

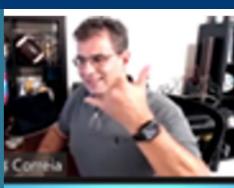
Ronan Batista PhD Professor at Federal University of Bahia

Fatima Cardoso MS Sustainability Consultant to the World Bank

Dr. Luiz Fernando Correia MD Health Journalist Ricardo Garcia MD MBA Biopharma, biosimilars, biotechnology, Latin America healthcare

Caroline Junqueira PhD
Postdoctoral fellow at Children's Hospital
Harvard Medical School
2020 ScientistA Award winner

Mario Urdaneta PhD Engineer and entrepreneur in the Scrap Recycling





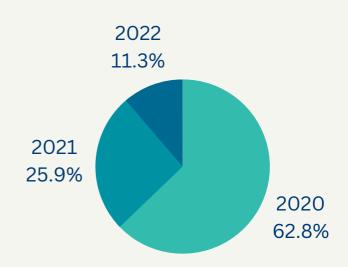
Financials



Charitable Contributions Reached \$110K+

We reached a major milestone by reaching US\$110,000 raised. Without the community's support, Dimensions Sciences' mission to promote diversity in the sciences wouldn't be possible.

Dimensions Sciences Inc. is a registered nonprofit under section 501(c)(3) of the IRS code. All contributions are tax deductible as permitted by law. No refund on donations. EIN: 84-3887-400.





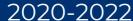
Platinum Transparency **2022**

Candid.

Transparency

The Platinum Seal of Transparency is the highest level of recognition offered by Candid GuideStar, the world's largest source of nonprofit information. By sharing metrics that highlight the progress we're making toward our mission, we're helping our donors directly see the impact of donations to move our organization forward.

Donor Recognition





Founder's Circle (\$50,000 or more)

Claudia Mitchell and family J.P. Morgan Charitable Giving Fund: \$55,000

Silver (\$5,000+)

- Capital One: \$7,500
- Drummond Advisors: \$7,500
- Marcia Fournier & Dean Oliver: \$7,350
- Magalu: \$6,500
- Pinnacle Bank: \$5,000

Ambassador (\$250+)

- Cristina Nogueira \$996
- The Gap: \$750
- Rotem Sela \$600
- Rachel Fleck \$510
- Ready Computing: \$500
- Anonymous Fidelity Charitable: \$500
- Don Marion \$500
- Sally Cowal: \$500
- Bob Chapman: \$500
- Larry Brownell: \$255
- Ann Goodman: \$250
- AlmaXP: \$250
- Mariangela Smania: \$250

Strategic Partners

- Women In Bio Capital Region
- Coordination for the Improvement of Higher Education Personnel (Coordenação de Aperfeicoamento de Pessoal de Nível Superior) (CAPES)
- Educare Espaco Educacional
- KID Museum
- Women of Brazil Group, Silicon Valley Chapter (Grupo Mulheres do Brasil Nucleo Vale do Silico)

Bronze (\$1,000+)

- Stephanie Bowles: \$3,000
- Grupo In Press \$2,737
- Edinardo Figueiredo \$2,000
- Koka Kliora: \$1,000
- Women in Bio: \$1,000

In-Kind Support

- Ardian Group
- Decante-se
- MasterClass
- Melt Design
- Muse Vineyards
- Primetour
- Rawganic

Endorsements

- The Brazilian Report
- Brazilian Studies Association (BRASA)
- Brazilian Voices
- Embassy of Brazil in Washington, D.C.
- Innovation Diplomacy Program, Brazilian Government Ministry of Foreign Affairs
- Pub-NY



Sponsors & Partners

Creating even more opprtunities





Coordination for the Improvement of Higher Education Personnel (CAPES) is a foundation within the Ministry of Education in Brazil whose central purpose is to coordinate efforts to improve the quality of Brazil's faculty and staff in higher education through grant programs. CAPES is particularly concerned with the training of doctoral candidates, predoctoral short-term researchers, and postdoctoral scholars.

Together with CAPES, Dimensions Sciences developed the New Dimension Award, awarded annually 2020-2023, a pioneer initiative aiming to honor women in science.



Grupo Mulheres do Brasil is a Brazilian female non-partisan group advocating for female leadership in building a sustainable society and a better country. The Silicon Valley Chapter has the purpose of creating BRIDGES between Brazil and the US, CONNECTING ideas, tools, content, people and ecosystems.

Grupo Mulheres do Brasil supported the ScientistA award and educational events supporting women in STEM fields.



Drummond Advisors is an organization that operates in the internationalization of companies. Drummond Advisors operates in the U.S. and Brazil. They are a firm of accountants, lawyers, managers, and consultants with experience in international business, enabling a broad and complete view of the challenges involved in international transactions.

Financial support from Drummond Advisors enabled us to offer our very first scholarship, the 2020 COVID-19 Task Force Scholarship and subsequently has been supporting the DS Bridges program 2021- 2022.

Grupo In Press

Grupo In Press is a communications holding company formed by global public relations and services agencies specializing in marketing and reputation. Industry leaders in Brazil, Grupo In Press offers creative and integrated solutions to more than 200 clients.

Grupo In Press has supported Dimensions Sciences through in-kind donations of marketing and public relations support in addition to financial support through annual donations to support the DS Bridges program since 2020 (2020-2022).

New Sponsors



2023

Silver (\$5,000+)



Pinnacle is much more than a bank. It's a place for people to find true partners for their business. It's a place where seasoned professionals give clients unmatched service and advice that better their financial well-being. And it's a place where people love coming to work every day.

Pinnacle bank is a new sponsor supporting Dimensions Sciences with a \$5,000 grant in 2023.

Bronze (\$1,000+)



Women In Bio (WIB) is a 501(c)(3) non-profit organization that supports and empowers women pursuing careers in the life sciences. Founded in 2002, we have grown to over 3000 members and over 400 volunteer leaders who engage in mentoring and innovative programming nationally and in our fourteen chapter cities. Originally the national headquarters of WIB, the WIB-Capital Region Chapter currently serves ~327 members in the greater Washington D.C.-Baltimore region.

Dimensions Sciences have been selected by the Capital Region Chapter as one of the 2022 WIB Diversity & Inclusion Grant winners (\$1,000). Dimensions Sciences will be honored at the 2023 HERStory Gala on April 27th, 2023.

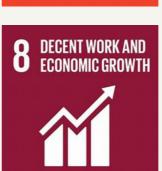
Collective Impact



Commitment to work towards to a better world











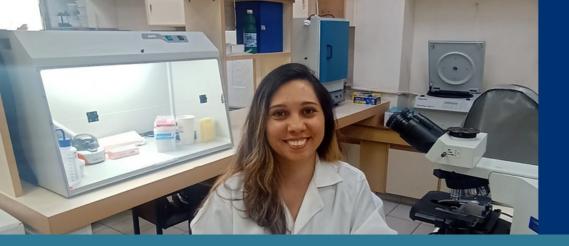














Your support is greatly appreciated and can change the world.

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Donate: paypal.com