

EctoLife: The World's First Artificial Womb Facility

Concept By: Hashem Al-Ghaili
Biotechnologist and science communicator



Email:

hashemalghaili@gmail.com



Official website:

<https://hashem-alghaili.com/>

- Press Kit: https://drive.google.com/drive/u/2/folders/14hx7q9J6_imatRISgVNAxeGc_Wk4Bro2
- Press Release: <https://scienceandstuff.com/ectolife-artificial-wombs/>
- Original Video: <https://youtu.be/O2Rlvj1U7RE>

Introducing **EctoLife**, the world's first artificial womb facility, which is powered entirely by renewable energy! EctoLife allows infertile couple to conceive a baby and become the true biological parents of their own offspring. It's a perfect solution for women who had their uterus surgically removed due to cancer or other complications. With EctoLife, premature births and C-sections will be a thing of the past. EctoLife is designed to help countries that are suffering from severe population decline including Japan, Bulgaria, South Korea, and many others.

The facility features 75 highly equipped labs. Each state-of-the-art lab can accommodate up to 400 growth pods or artificial wombs. Every pod is designed to replicate the exact conditions that exist inside the mother's uterus. A single building can incubate up to 30,000 lab-grown babies per year.

EctoLife allows your baby to develop in an infection-free environment. The pods are made of materials that prevent germs from sticking to their surfaces. Every growth pod features sensors that can monitor your baby's vital signs, including heartbeat, temperature, blood pressure, breathing rate and oxygen saturation. The artificial-intelligence-based system also monitors the physical features of your baby and reports any potential genetic abnormalities.

The pods are equipped with a screen that displays real-time data on the developmental progress of your baby. These data are sent directly to your phone so you can track your baby's health from the comfort of your zone. The app also provides you with a high-resolution live view of your baby's development. A special section in the app allows you to watch a timelapse of your baby's growth and share it directly with your loved ones.

Because babies can recognize language and learn new words while still in the womb, EctoLife growth pods feature internal speakers that play a wide range of words and music to your baby. Through the app, you can choose the playlist that your baby listens to. You can also directly sing to your baby and make them familiar with your voice before birth. Our goal is to provide you with an intelligent offspring that truly reflects your smart choices.

EctoLife improves your bonding experience with your baby. Using a wireless haptic suit connected to your baby's growth pod, you will be able to sense their kicks in the womb and share this experience with your friends and family members. Thanks to a 360 camera that's fitted inside your baby's growth pod, you can use your virtual reality headset to explore what it is like to be in your baby's place. See what they see and hear what they hear.

With EctoLife, your baby will receive the best nutrients that can support their growth. Each group of pods is connected to two central bioreactors. The first bioreactor contains nutrients and oxygen, which are supplied to your baby through an artificial umbilical cord. This bioreactor also contains a liquid solution that serves as the amniotic fluid that surrounds babies in the mother's uterus. It's rich of vital hormones, growth factors and antibodies that sustain your baby's growth and development. Thanks to a system controlled by artificial intelligence, each baby receives custom nutrients tailored to their needs.

The second bioreactor is designed to eliminate any waste products produced by the babies. The artificial umbilical cord helps the babies to release their waste products into the second bioreactor. With the help of a delicate layer of engineered enzymes, the second bioreactor can then recycle waste products and turn them back into useful nutrients. This way, the facility ensures a steady and sustainable supply of fresh nutrients to your baby.

With EctoLife, miscarriage and low sperm count are a thing of the past. Prior to placing the fertilized embryo of your baby inside the growth pod, In Vitro Fertilization is used to create and select the most viable and genetically superior embryo, giving your baby a chance to develop without any biological hurdles.

And if you want your baby to stand out and have a brighter future, our Elite Package offers you the opportunity to genetically engineer the embryo before implanting it into the artificial womb. Thanks to CRISPR-Cas 9 gene editing tool, you can edit any trait of your baby through a wide range of over 300 genes. By genetically engineering a set of genes, the Elite Package allows you to customize your baby's eye color, hair color, skin tone, physical strength, height, and level of intelligence. It also allows you to fix any inherited genetic diseases that are part of your family history so that your baby and their offspring will live a healthy comfortable life free of genetic diseases.

Say goodbye to the pain of childbirth and birth-related muscle contractions.

EctoLife provides you a safe, pain-free alternative that helps you deliver your baby without stress. The delivery process is smooth, convenient, and can be done with just a push of a button. After discharging the amniotic fluid from the artificial womb, you will be able to easily remove your baby from the growth pod. Everything is perfectly designed so you and your partner can enjoy the delivery process. To ensure full transparency, our post-delivery free DNA paternity test helps you confirm the genetic identity of your baby so you can return home knowing that your baby is genetically yours.

You don't have to worry about power cuts or carbon footprint. EctoLife uses highly efficient, clean, renewable energy consisting of solar and wind power. The highly advanced pods operate with minimal energy needs, making it easy for

And for those who want a more convenient solution, EctoLife is made accessible so your life can be easier. Thanks to our miniaturized bioreactors and long-lasting batteries, you can use EctoLife growth pods at the comfort of your home, allowing you to incubate your baby in your building without the need to visit our factory. By owning your special growth pod, you will have the ability to build a happy family one baby at a time, away from any birth complications.

The concept of EctoLife facility was designed by biotechnologist and science communicator Hashem Al-Ghaili. It relies on groundbreaking research work that has been conducted by scientists and engineers since 1950s. Tired of waiting for a response from an adoption agency? Unable to find a suitable surrogate mother? Worried about pregnancy complications? Worry no more because EctoLife got you covered.

EctoLife: Reinventing Evolution

About Hashem Al-Ghaili, creator of the EctoLife artificial womb concept:

Hashem Al-Ghaili is a producer, filmmaker and a science communicator based in Berlin, Germany. A molecular biologist by trade, Hashem uses his knowledge and passion for science to educate the public through social media and video content. His flagship page, Science Nature, has garnered over 33 million followers on Facebook, and his hundreds of original videos – renowned for their simple, yet powerful visual storytelling – have been viewed over 17 billion times, and have inspired hundreds of thousands of people across the globe. Hashem graduated from Jacobs University Bremen and obtained his master's degree in Molecular Biology.

Terms of use:

You are allowed to use the images, videos and text that accompany this press kits as long as you:

- Credit **Hashem Al-Ghaili** and link to the official website (<https://hashem-alghaili.com/>)
- Cite the original press release in your article or content material:

<https://scienceandstuff.com/ectolife-artificial-wombs/>

Optional:

- Send a link to your article, video, post to hashemalghaili@gmail.com is highly appreciated.
- For interview and additional details on the concept, feel free to contact hashemalghaili@gmail.com.



Email:

hashemalghaili@gmail.com



Official website:

<https://hashem-alghaili.com/>