



MACHAKOS UNIVERSITY
OFFICE OF THE DIRECTOR

(RESEARCH, INNOVATION AND TECHNOLOGY TRANSFER)

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**INTELLECTUAL PROPERTY DATABASE**

**FINANCIAL YEAR 2018/2019 STUDENTS INNOVATION PROJECTS**

| S/No. | PRINCIPAL INNOVATOR   | CO-INNOVATORS                                                                 | CONTACT    | TITLE                                                   | ALLOCATED FUNDS (KSHS) | LEVEL OF DEVELOPMENT | IPR TYPE AND REGISTRATION STATUS |
|-------|-----------------------|-------------------------------------------------------------------------------|------------|---------------------------------------------------------|------------------------|----------------------|----------------------------------|
| 1     | Gatheca Joseph Nganga | Samuel Kahoro Kiare, Bor Brighton Kiprono, Samuel Kinyanjui, Dorcas Chepkoech | 0702870293 | Machakos University Honey Production (Apiary)           | 44,500                 | Prototype            | Utility model<br>Not protected   |
| 2     | Faith Gaceri Musyimi  |                                                                               | 0790226085 | Extraction of Table salt from Tobacco, Carrots and Milk | 6,550                  | Prototype            | Utility model<br>Not protected   |

|    |                       |                                                                |                                 |                                                                         |         |           |                                |
|----|-----------------------|----------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------|---------|-----------|--------------------------------|
| 3  | Victor Karume Kariuki | Kevin Njoroge, Reuben Omwenga                                  | 0715902818                      | The Kings Pyramid                                                       | 284,900 | Prototype | Utility model<br>Not protected |
| 4  | Galm Halake           |                                                                | Electrical Eng. And Agriculture | Tri-security Intelligent System                                         |         | Prototype | Utility model<br>Protected     |
| 5  | Maxwell Moya          | Anne Njeri                                                     | Open                            | Drawing                                                                 |         | Skill     | Open                           |
| 6  | Ambrose Oyamo         |                                                                | ICT                             | Fair gram Social media                                                  |         | Service   | Copyright<br>Not Protected     |
| 7  | Duncan Kimba          |                                                                | Linguistics                     | Book                                                                    |         | Product   | Copyright<br>Not Protected     |
| 8  | Anthony Mugo          | Anthony Ndolo                                                  | Building Technology             | Dual Purpose Door                                                       |         | Prototype | Utility model<br>Not protected |
| 9  | Kibinda Oscar Murimi  | Antony Mwanja Ngunzi, Murithi Norah Ntintari, Salasya Emmanuel | 0797631927                      | www.attachments.com                                                     | 120,000 | Prototype | Utility model<br>Not protected |
| 10 | Nelson Kimani         | Njenga Elijah, Emmanuel Sesera                                 | 0702460690                      | Machakos University study materials Repository                          | ~       | Prototype | Utility model<br>Not protected |
| 11 | Vincent Kiprono Ngeno | Kiplangat Gideon                                               | 0711797052                      | Vigindo Products- Basic products from avocado and other local materials | 44,150  | Prototype | Utility model<br>Not protected |
| 12 | Francis Kioko Masila  |                                                                | 0707274525                      | One Stop Online Platform for Refering                                   | 74,660  | Prototype | Utility model<br>Not protected |

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|----|-----------------------|---------------------------------------------------|------------|---------------------------------------------------------------|---------|-----------|--------------------------------|
|    |                       |                                                   |            | and Booking vacant houses, business rooms, Hotels and Hostels |         |           |                                |
| 13 | Daniel Ojiayo         | Lan Muriuki, Marcus Nyambura                      | 0704691604 | Byfussion Technology                                          | 55,550  | Prototype | Utility model<br>Not protected |
| 14 | Gladys Gathoni Kaburu | Osebe Elizabeth, Ndirangu Virginia, Monica Masake | 0720389406 | Interoperability in Distributed Healthcare System             | 99,500  | Prototype | Utility model<br>Not protected |
| 15 | Michael Muriuki       | Gitau James, Leslie Collins                       | 0714173168 | The Live moving Billboard                                     | 50,000  | Prototype | Utility model<br>Not protected |
| 16 | Shadrack Kyalo        | Beth Muthoni, Serah Mbaluka                       | 0741598466 | Aeroponics                                                    | 162,000 | Prototype | Utility model<br>Not protected |
| 17 | Meshack Ndeli         |                                                   | 0715654734 | Kenya's Turning Point (Mostly on Curriculum)                  | 50,000  | Prototype | Utility model<br>Not protected |
| 18 | David Wanjala Wafula  |                                                   | 0790446043 | Electronic Door Alarm                                         | 30,000  | Prototype | Utility model<br>Not protected |
| 19 | Chris Kamau Waweru    | Geoffrey Kimani                                   | 0719514762 | Machakos University Online Notice- Board                      | 80,000  | Prototype | Utility model<br>Not protected |
| 20 | Abisalom Okoth        | Kevin Njoroge                                     | 0713093936 | Exclusive Voting in Universities (EEVU)                       | 494,000 | Prototype | Utility model<br>Not protected |
| 21 | Karuko H. Muket       | Dr. Marther Ngigi                                 | 0796028844 | Livestock Insurance and Animal Healthcare Project             | 52,000  | Prototype | Utility model<br>Not protected |

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|----|-----------------------|------------------------------------------|------------|--------------------------------------------------|---------|-----------|--------------------------------|
| 22 | Peter Njuguna Wanjiru | Koisok John Chebon                       | 0711108544 | Innovation of Medicinals for Cancer and HIV/AIDS | 20,000  | Prototype | Utility model<br>Not protected |
| 23 | Philip Ushindi        | Lucy Kadii Nzaro                         | 0702177732 | Energy-Brain Activation Theory                   | 50,000  | Prototype | Utility model<br>Not protected |
| 24 | John Samuel Njoroge   |                                          | 0716740054 | Cream Lands Company                              | 150,000 | Prototype | Utility model<br>Not protected |
| 25 | Caroline Wangui Maina | Monica Wanjiru,<br>Edna Wairimu Mugo     | 0712238307 | E-Basket                                         | 325,000 | Prototype | Utility model<br>Not protected |
| 26 | Samuel Njogu Kariuki  |                                          | 0714909772 | Power Generation                                 | 37,180  | Prototype | Utility model<br>Not protected |
| 27 | Ondari Maxwell Moya   | Eddy Chilyalya,<br>Esther Wanjiku Ndungu | 0728223995 | Flywheel Free Energy                             | 57,500  | Prototype | Utility model<br>Not protected |

### FINANCIAL YEAR 2021/2022 STUDENTS INNOVATION PROJECTS

| S/No. | PRINCIPAL INNOVATOR          | CO-INNOVATORS                  | SCHOOL/ CONTACTS/FIELD                                                                                                   | TITLE                                                | ALLOCATED FUNDS (KSHS) | LEVEL OF DEVELOPMENT | IPR TYPE AND REGISTRATION STATUS                                  |
|-------|------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------|----------------------|-------------------------------------------------------------------|
| 1     | Brian Oliwa                  | John nyamira<br>Naomi Kimanthi | Humanities and<br>Social sciences<br>0792521013<br><a href="mailto:brianoliwa@gmail.com">brianoliwa@gmail.com</a>        | BY-FUSION<br>Technology                              | 40,000                 | Prototype            | Utility model<br>Not Protected                                    |
| 2     | Samuel<br>Ambetsa<br>Alwande | ~                              | Electricals and<br>Electronics<br>0740413309<br><a href="mailto:samuelalwande99@gmail.com">samuelalwande99@gmail.com</a> | Automatic<br>temperature<br>Regulation Fan<br>System | 32,000                 | Prototype            | Utility model<br>Not Protected                                    |
| 3     | Anthony Mugo                 | Anthony Ndolo                  | Electrical<br>Engineering                                                                                                | Suction Hair<br>Clipper                              |                        | Prototype            | Utility model<br>Not Protected                                    |
| 4     | Lawrence<br>Matolo           |                                | ICT                                                                                                                      | Radio Phone Set                                      |                        | Prototype            | Published<br>Annuity<br>Pending                                   |
| 5     | Geoffrey<br>Musyoka          |                                | ICT and Linguistics                                                                                                      | Music<br>Composition                                 |                        | Product              | Copyright<br>Protected                                            |
| 6     | Emmanuel<br>Nyamai           |                                | Agriculture                                                                                                              | Termite<br>Fumigation                                |                        | Prototype            | Utility model<br>Not Protected                                    |
| 7     | Lawrence<br>Matolo           |                                | Building<br>Technology                                                                                                   | Sand Packaging                                       |                        | Prototype            | Utility model<br>Not Protected                                    |
| 8     | Lawrence<br>Matolo           |                                | Agriculture,<br>Health and<br>Education                                                                                  | Multipurpose Seed<br>Based                           |                        | Prototype            | Patent<br>Registered and<br>Published but<br>Protection<br>Lapsed |
| 9     | Kevin Roman                  | Claries                        | Computer                                                                                                                 | I-Voting                                             |                        | Product              | Copyright                                                         |

|    |                              |                                |                                                                                                                                 |                                                                                              |        |           |                                |
|----|------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|-----------|--------------------------------|
|    |                              |                                | Software                                                                                                                        |                                                                                              |        |           | Protected,<br>Trademark        |
| 10 | Gilisho Leteipa              | Paul Omuga<br>Owino Kevin      | SPAS (Maths and<br>Statistics)0758220<br>554                                                                                    | Non-Fuel Electric<br>Generator                                                               | 17,500 | Prototype | Utility model<br>Not Protected |
| 11 | Tony Blair                   | Ajino Otieno                   | SPAS (Maths and<br>Statistics)<br><br>00712463142<br><a href="mailto:tonyblairakumu99@gmail.com">tonyblairakumu99@gmail.com</a> | Programmable Fan<br>and Bulbs                                                                | 30,000 | Prototype | Utility model<br>Not Protected |
| 12 | Rebecca<br>Kwamboka<br>Tumbo |                                | Education<br><br>0795073419<br><a href="mailto:reecatumbo@gmail.com">reecatumbo@gmail.com</a>                                   | Food and<br>Innovation<br>(Magnified and<br>Improved trolley)                                | 85,000 | Prototype | Utility model<br>Not Protected |
| 13 | George Odame                 | Mary David<br>Tom Kasimiri     | Humanities and<br>Social sciences<br><br>0112756271<br><a href="mailto:Georgeodame@gmail.com">Georgeodame@gmail.com</a>         | Chicken Feeds                                                                                | 40,000 | Prototype | Utility model<br>Not Protected |
| 14 | Faith Gaceri<br>Musyimi      | Brian Samson<br>Daniel Nambafu | Business and<br>Economics<br><br>0790226085                                                                                     | Home water<br>Recycling Plant                                                                | 30,000 | Prototype | Utility model<br>Not Protected |
| 15 | Antony<br>Makanga<br>Muhinda |                                | Hospitality and<br>Tourism<br>management<br>0758277793<br><a href="mailto:antonymakanga8">antonymakanga8</a>                    | Hygiene Control in<br>the Food Industry;<br>New Ways to<br>Prevent Food<br>Poisoning in Food | 30,000 | Prototype | Utility model<br>Not Protected |

|    |               |                |                                                       |                               |        |           |                                |
|----|---------------|----------------|-------------------------------------------------------|-------------------------------|--------|-----------|--------------------------------|
|    |               |                | <a href="#">@gmail.com</a>                            | Industries                    |        |           |                                |
| 16 | Amos Shahindi | VD01-2595-2021 | Electrical and Electronics Engineering<br>07112507149 | Satellite Aided Speed Control | 58,500 | Prototype | Utility model<br>Not Protected |
| 17 | Wendy Frenza  | 0794301800     | School of Engineering and Technology                  | Gun and Bomb detector         |        | Prototype | Copyright<br>Protected         |

### FINANCIAL YEAR 2022/2023 STUDENTS INNOVATION PROJECTS

| S/<br>NO | NAME OF<br>PRINCIPAL<br>INNOVATOR AND<br>COLLABORATORS                                                                          | REG NO/FIELD  | TITTLE OF<br>INNOVATION                                                                   | ALLOCATE<br>D FUNDS<br>(KSH) | LEVEL OF<br>DEVELOPMENT | IPR TYPE AND<br>REGISTRATION<br>STATUS |
|----------|---------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------|------------------------------|-------------------------|----------------------------------------|
| 1.       | Daniel Muithui<br>Mutua                                                                                                         | J17-6821-2020 | Table Banking<br>Management<br>System for Utonyi<br>Witu Forum                            | 90,000                       | Prototype               | Registered for<br>Patenting            |
| 2.       | (PI) Moses Kalama<br>Mtengo<br>(CO) Zedekiah<br>Ambogo,<br>Mukwe Dickson,<br>Mercy Jemimah,<br>Barbra Mwendwa,<br>Jeremy Okungu | J12-4195-2019 | E-mess                                                                                    | 58,500                       | Prototype               | Registered for<br>Patenting            |
| 3.       | (PI) Robert Okecha<br>(CO) Alphine<br>Ouma,<br>Christabel Musyoka,<br>Elijah Moogi,<br>Edwin Shihaji                            | S12-6406-2020 | Organic Chemistry<br>Prototype<br>Molecular Models<br>for young great<br>Scientific minds | 80,000                       | Prototype               | Not registered for<br>Patenting        |
| 4.       | Joseph Ababu                                                                                                                    | J26-8188-2021 | Pee Health                                                                                |                              | Prototype               | Registered for<br>Patenting            |
| 5.       | Evans Ngundi                                                                                                                    |               | Vizuo Sense                                                                               |                              | Prototype               | Registered for<br>Patenting            |
| 6.       | (PI) Dickson Esamai<br>(CO) David Nzai,                                                                                         | J26-3111-2019 | Robo- Farm Project                                                                        | 21,605                       | Prototype               | Registered for<br>Patenting            |
| 7.       | (PI) Evan Ngugi                                                                                                                 | J26-8163-2021 | Intelligent Camera<br>For the Visually                                                    | 99,300                       | Prototype               | Not registered for<br>Patenting        |

|     |                                                                                                                        |               |                                                                          |         |           |                              |
|-----|------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------|---------|-----------|------------------------------|
|     | (CO) Shadrack Kiprop                                                                                                   |               | Impaired                                                                 |         |           |                              |
| 8.  | Antony Makanga                                                                                                         | T12-3926-2019 | The Kinetics of Rapid Enhanced Effective Micro on Oil and Grease Removal | 65,800  | Prototype | Not registered for Patenting |
| 9.  | Vincent Wambua                                                                                                         | J12-1460-2022 | Solar Operated Mopping Machine                                           | 35,000  | Prototype | Not registered for Patenting |
| 10. | (PI) Wanjie Ryan<br>(CO) Maina Kelvin,<br>Mutuku Cornelius,<br>Kagendo Martin                                          | J17-5552-2020 | G2F Connect                                                              | 100,000 | Prototype | Not registered for Patenting |
| 11. | Wayne Murunga                                                                                                          | J17-5576-2020 | Smart Parking Management System for Urban Centers                        | 70,000  | Prototype | Registered for Patenting     |
| 12. | David Nzai Mwangome                                                                                                    | J26-3094-2019 | Automatic Power Regulator                                                | 21,200  | Prototype | Registered for Patenting     |
| 13. | Mulama Dalton Shiundu                                                                                                  | J26-8199-2021 | Self-Powered Kettle                                                      | 45,000  | Prototype | Not registered for Patenting |
| 14. | (PI) Zedekiah Ambogo<br>(CO) Waithaka Samwel Njenga,<br>Alex Yator,<br>David Olongo,<br>Babra Mwendwa,<br>Faith Jeptoo | S09-4022-2019 | Metra verse class                                                        | 58,500  | Prototype | Registered for Patenting     |
| 15. | (PI) Kelvin Mukaria<br>(CO) Liyayi Junior                                                                              | S09-6439-2020 | T- Scholler                                                              | 80,000  | Prototype | Not registered for Patenting |
| 16. | Amos Shahindi                                                                                                          | VD01-2595-    | Satellite Aided                                                          | 58,500  | Prototype | Not registered for           |

|     |                  |               |                       |         |           |                          |
|-----|------------------|---------------|-----------------------|---------|-----------|--------------------------|
|     |                  | 2021          | Speed Control         |         |           | Patenting                |
| 17. | Indimuli O Brian | S08-2903-2019 | Carbon Crop Insurance | 200,000 | Prototype | Registered for Patenting |